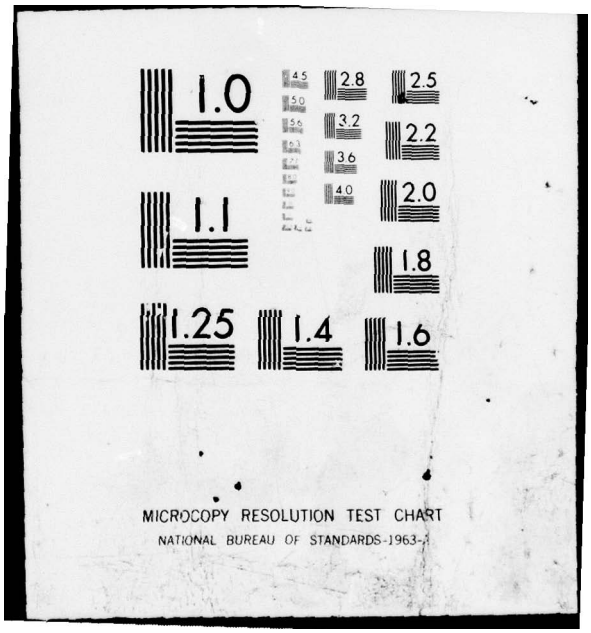
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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO) SELECTED--ETC(U)
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1 OF 7

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO)

AD A073446

(12)

SELECTED SOUTH PACIFIC ISLAND MARINE AREAS

VOLUME 2

LEVEL III

4073445

AREA 9 - ISLE WALLIS
AREA 10 - SAMOA ISLANDS
AREA 11 - NEW CALEDONIA
AREA 12 - NEW HEBRIDES ISLANDS
AREA 13 - FIJI ISLANDS
AREA 14 - TONGA ISLANDS
AREA 15 - NIUE ISLAND
AREA 16 - RAROTONGA IS. (LOWER COOK ISLANDS)

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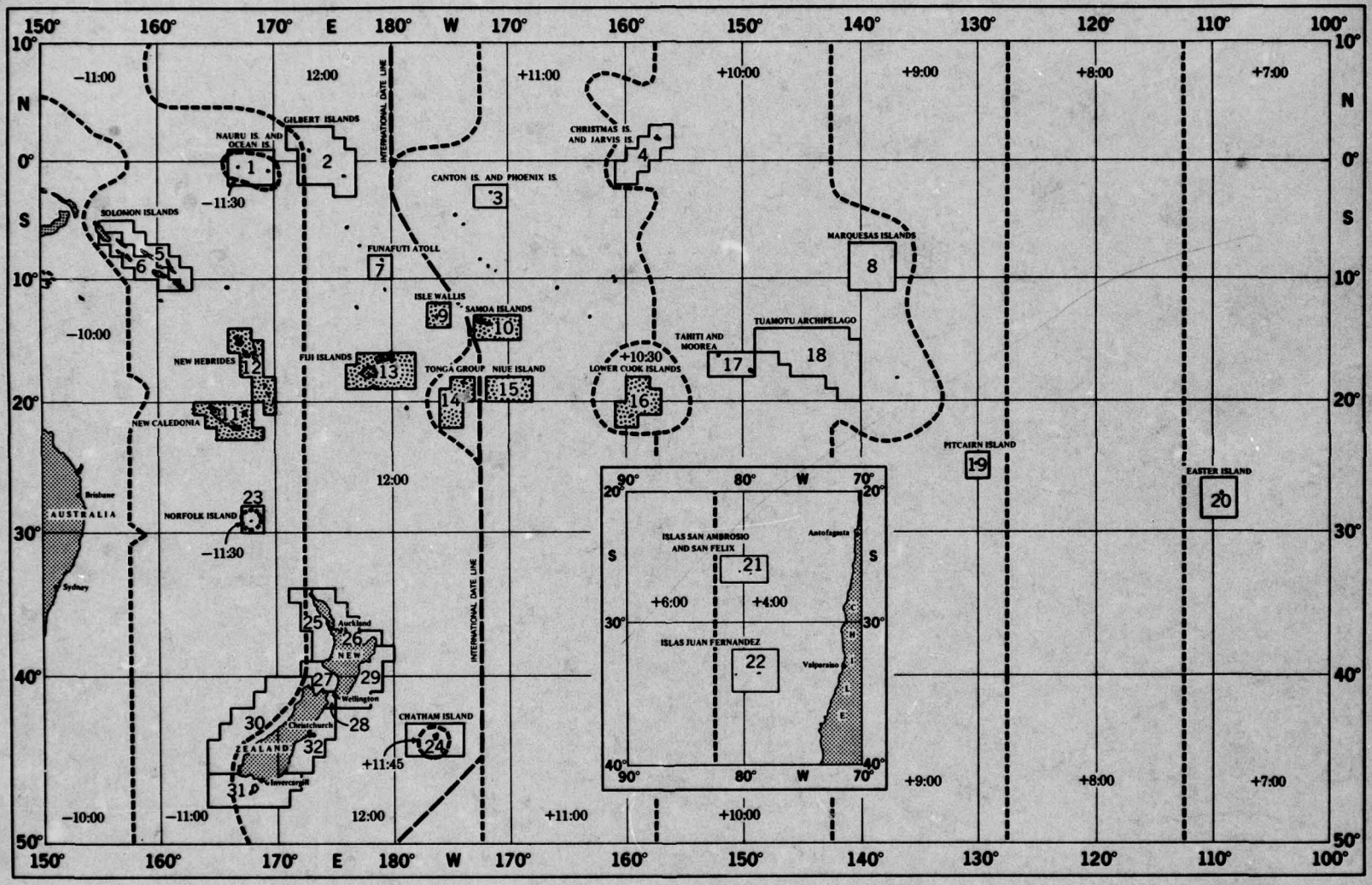
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PREPARED BY
THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR
COMMANDER, NAVAL OCEANOGRAPHY COMMAND

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SEPTEMBER 1979



SELECTED SOUTH PACIFIC ISLANDS SSMO AREAS AND STANDARD TIME ZONES

Shaded areas are included in this volume

A list of the area names and their central locations appears on the inside back cover

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
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Marine Climatology, Coastal Marine Summary Tables, Selected South Pacific Island Marine Areas, Isle Wallis, Samoa Islands, New Caledonia, New Hebrides Islands, Fiji Islands, Tonga Islands, Niue Island, Rarotonga Is. (Lower Cook Islands)

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This report presents marine climatological data for specific coastal areas in 21 different tables including weather occurrence, wind direction and speed, cloud amount, ceiling height, visibility, precipitation, dry bulb, relative humidity, air-sea temperature difference, sea height and period sea surface temperature and sea level pressure.

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO)

SELECTED SOUTH PACIFIC ISLAND MARINE AREAS

VOLUME 2

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AREA 9 - ISLE WALLIS
AREA 10 - SAMOA ISLANDS
AREA 11 - NEW CALEDONIA
AREA 12 - NEW HEBRIDES ISLANDS
AREA 13 - FIJI ISLANDS
AREA 14 - TONGA ISLANDS
AREA 15 - NIUE ISLAND
AREA 16 - RAROTONGA IS. (LOWER COOK ISLANDS)

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PREPARED BY
THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The SSMO series of coastal marine summaries is managed and produced by the Naval Weather Service Detachment, Asheville, N. C. for the Commander, Naval Oceanography Command. A list of published SSMO's is contained in the catalogue part of the "Guide to Standard Weather Summaries and Climatic Services", NAVAIR 50-1C-534.

The data summarized in the following tables were obtained from Tape Data Family 11 (TDF-11) Marine Surface Observations. The development and maintenance of TDF-11 was primarily funded by the Naval Weather Service Command. The source of these marine surface observations was punched cards of weather observations taken aboard vessels of varying registry. These observations were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing the data file toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Oktas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present). and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The Extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature (° F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

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AREA	NAME	PAGES
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Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22161.

DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observation counts" may not equal grand totals.

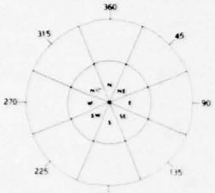


Fig 1. The 8 point direction system.

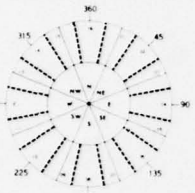


Fig 2. The 16 point direction system superimposed on the 8 point system.

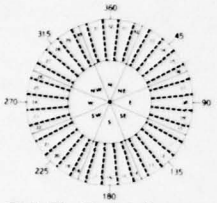


Fig 3. The 32 point direction system superimposed on the 8 point system.

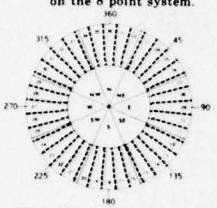


Fig 4. The 36 point direction system superimposed on the 8 point system.

VISIBILITY (VV)

CODE	INTERPRETATION (NAUTICAL MILES)
90-93	VV<1/2
94	1/2≤VV<1
95	1≤VV<2
96	2≤VV<5
97	5≤VV<10
98	10≤VV<25
99	VV≥25

NOTE: <means less than; >means greater than; ≤means less than or equal to; ≥means greater than or equal to.

PRESENT WEATHER (1960 WMO CODE 4677)

CODE	INTERPRETATION
58-59, 60-65, 91-94, (68-69,95,97 IF TEMP >40°F)	RAIN
80-82,(83-84 IF TEMP >40°F)	RAIN SHOWERS
50-55,58-59	DRIZZLE
56-57, 66-67	FREEZING PRECIPITATION
70-75,85-86 (68-69,83-84, 95,97 IF TEMP ≤40°F)	SNOW
76-79	OTHER FROZEN PRECIPITATION
87-90, 93-94, 96,99	HAIL
13,17, 19,29, 95-99	THUNDER LIGHTNING THUNDERSTORM

CODE	INTERPRETATION
10-12, 40-49	FOG (WITHOUT PRECIPITATION)
28	FOG (WITHOUT PRECIPITATION) PAST HOUR
04-05	SMOKE HAZE
06-09, 30-39	SPRAY BLOWING DUST BLOWING SNOW
00-03, 14-16, 18	NO SIGNIFICANT WEATHER AT OB TIME
00-49	NO PRECIPITATION AT OB TIME
50-99	PRECIPITATION AT OB TIME
20-27	PRECIPITATION PAST HOUR

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25	<1
01	>.25 to .75	1-2
02	>.75 to 1.25	3-4
03	>1.25 to 1.75	5-6
04	>1.75 to 2.25	7
05	>2.25 to 2.75	8-9
06	>2.75 to 3.25	10-11
07	>3.25 to 3.75	12
08	>3.75 to 4.25	13-16
09	>4.25 to 4.75	
10	>4.75 to 5.25	17-19
11	>5.25 to 5.75	
12	>5.75 to 6.25	20-22
13	>6.25 to 6.75	
14	>6.75 to 7.25	23-25
15	>7.25 to 7.75	
16	>7.75 to 8.25	26-32
17	>8.25 to 8.75	
18	>8.75 to 9.25	
19	>9.25 to 9.75	
20	>9.75 to 10.25	33-40
21	>10.25 to 10.75	
22	>10.75 to 11.25	
23	>11.25 to 11.75	
24	>11.75 to 12.25	
25	>12.25 to 12.75	41-48
26	>12.75 to 13.25	
27	>13.25 to 13.75	
28	>13.75 to 14.25	
29	>14.25 to 14.75	
30	>14.75 to 15.25	49-60
31	>15.25 to 15.75	
32	>15.75 to 16.25	
33	>16.25 to 16.75	
34	>16.75 to 17.25	
35	>17.25 to 17.75	
36	>17.75 to 18.25	
37	>18.25 to 18.75	61-70
38	>18.75 to 19.25	
39	>19.25 to 19.75	
40	>19.75 to 20.25	
41	>20.25 to 20.75	
42	>20.75 to 21.25	
43	>21.25 to 21.75	71-86
44	>21.75 to 22.25	
45	>22.25 to 22.75	
46	>22.75 to 23.25	
47	>23.25 to 23.75	
48	>23.75 to 24.25	
49	>24.25 to 24.75	
50	>24.75 to 25.25	
51	>25.25 to 25.75	
52	>25.75 to 26.25	
53-99	>26.25 to 49.75	≥87

Indeterminate=INDET

JANUARY

PERIOD: (PRIMARY) 1935-1976
(OVER-ALL) 1879-1976

AREA 0009 ISLE WALLIS
12.8S 176.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	13.3	.0	.0	.0	.0	.0	.0	13.3	.0	13.3	.0	.0	.0		.0	86.7
NE	4.4	8.9	.0	.0	.0	.0	.0	13.3	8.9	4.4	17.8	.0	.0		.0	60.0
E	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	7.1	.0	.0		.0	67.9
SE	.0	25.0	.0	.0	.0	.0	.0	25.0	3.1	.0	6.3	.0	.0		.0	65.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	21.4	.0	.0	.0	.0	.0	21.4	.0	.0	.0	.0	.0		.0	78.6
NW	33.3	8.3	.0	.0	.0	.0	.0	41.7	.0	.0	.0	.0	.0		.0	58.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	5.0	10.0	.0	.0	.0	.0	.0	15.0	7.5	2.5	7.5	.0	.0		.0	70.0
TOT OBS:	40															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	7.1	.0	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0		.0	92.9
06609	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0		.0	83.3
12615	6.7	13.3	.0	.0	.0	.0	.0	20.0	6.7	6.7	20.0	.0	.0		.0	53.3
18621	.0	14.3	.0	.0	.0	.0	.0	14.3	28.6	.0	.0	.0	.0		.0	57.1
TOT PCT	4.8	9.5	.0	.0	.0	.0	.0	14.3	7.1	2.4	7.1	.0	.0		.0	71.4
TOT OBS:	42															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.1	3.6	7.1	1.8	.0	.0		15.6	10.5	18.4	.0	9.4	.0	21.4	.0	.0	.0
NE	.4	21.4	6.3	.0	.0	.0		28.1	8.7	28.9	.0	25.0	.0	34.5	100.0	.0	.0
E	.0	13.4	3.6	.0	.0	.0		17.0	9.0	15.8	.0	18.8	.0	10.7	.0	35.0	50.0
SE	.0	13.4	5.4	.0	.0	.0		18.8	9.1	15.8	.0	18.8	.0	22.6	.0	5.0	50.0
S	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	2.7	1.8	.0	.0	.0		4.5	9.8	5.3	.0	.0	.0	2.4	.0	20.0	.0
W	.0	2.2	3.6	1.8	.0	.0		7.6	16.4	3.9	.0	9.4	.0	4.8	.0	35.0	.0
NW	.0	.4	2.7	3.6	.0	.0		6.7	21.1	6.6	.0	18.8	.0	3.6	.0	5.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	5.3	.0	.0	.0	.0	.0	.0	.0
TOT OBS	3	32	17	4	0	0	56		10.4	19	0	8	0	21	1	5	2
TOT PCT	5.4	57.1	30.4	7.1	.0	.0		100.0		100.0	.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.4	8.5	1.8	.0	.0		15.6	10.5	18.4	9.4	20.5	.0
NE	8.9	17.4	1.8	.0	.0		28.1	8.7	28.9	25.0	37.5	.0
E	2.2	14.7	.0	.0	.0		17.0	9.0	15.8	18.8	10.2	39.3
SE	6.7	12.1	.0	.0	.0		18.8	9.1	15.8	18.8	21.6	17.9
S	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
SW	1.8	2.7	.0	.0	.0		4.5	9.8	5.3	.0	2.3	14.3
W	.0	3.1	4.5	.0	.0		7.6	16.4	3.9	9.4	4.5	25.0
NW	.0	2.2	2.7	1.8	.0		6.7	21.1	6.6	18.8	3.4	3.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	5.3	.0	.0	.0
TOT OBS	15	34	6	1	0	56		10.4	19	8	22	7
TOT PCT	26.8	60.7	10.7	1.8	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1935-1978
(OVER-ALL) 1870-1978

AREA 0009 ISLE WALLIS
13.3S 176.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	5.3	10.5	52.6	21.1	10.5	.0	.0	10.5	100.0	19
06609	.0	.0	50.0	37.5	12.5	.0	.0	12.7	100.0	8
12615	.0	.0	68.2	31.8	.0	.0	.0	8.8	100.0	22
18621	.0	.0	42.9	42.9	14.3	.0	.0	12.4	100.0	7
TOT	1	2	32	17	4	0	0	10.4		56
PCT	1.8	3.6	57.1	30.4	7.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.3	.0	.0	4.3		5.0
NE	5.4	4.3	13.0	4.3		5.0
E	4.3	.0	15.2	.0		4.9
SE	4.3	8.7	6.5	.0		3.5
S	.0	.0	.0	.0		.0
SW	4.3	.0	.0	4.3		5.0
W	.0	.0	4.3	3.3		6.2
NW	.0	.0	4.3	5.4		6.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	5	3	10	5	23	4.9
TOT PCT	21.7	13.0	43.5	21.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	
NE	.0	.0	.0	4.3	4.3	.0	.0	.0	.0	.0	18.5	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.6	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.6	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	4.3	
W	.0	.0	.0	.0	3.3	4.3	.0	.0	.0	.0	.0	
NW	.0	.0	.0	4.3	1.1	.0	.0	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	2	3	1	0	0	0	0	17	23
TOT PCT	.0	.0	.0	8.7	13.0	4.3	.0	.0	.0	.0	73.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >2000	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
= OR >1000	12.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
= OR >600	16.0	20.0	24.0	24.0	24.0	24.0	24.0	24.0
= OR >300	16.0	20.0	24.0	24.0	24.0	24.0	24.0	24.0
= OR >150	16.0	20.0	24.0	24.0	24.0	24.0	24.0	24.0
= OR > 0	16.0	20.0	24.0	24.0	24.0	24.0	24.0	24.0
TOTAL	4	5	6	6	6	6	6	6

TOTAL NUMBER OF OBS: 25

PCT FREQ NH <5/8: 76.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.0	19.2	15.4	11.5	26.9	11.5	3.8	.0	11.5	.0	26

JANUARY

PERIOD: (PRIMARY) 1935-1978
(OVER-ALL) 1879-1978

AREA 0009 ISLE WALLIS
12.8S 176.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	2.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	2.5	
	TOT %	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	5.0	
5<10	PCP	1.3	3.8	.0	2.5	.0	.0	1.9	.6	.0	.0	10.0	
	NO PCP	.0	7.5	3.8	1.3	.0	1.3	4.4	1.9	.0	.0	20.0	
	TOT %	1.3	11.3	3.8	3.8	.0	1.3	6.3	2.5	.0	.0	30.0	
10+	PCP	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	2.5	
	NO PCP	8.1	16.9	13.8	13.8	.0	5.0	2.5	.0	.0	2.5	62.5	
	TOT %	8.1	16.9	13.8	16.3	.0	5.0	2.5	.0	.0	2.5	65.0	
TOT OBS													40
TOT PCT		9.4	28.1	17.5	20.0	.0	6.3	8.8	7.5	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	5.0	.0		5.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	5.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	7.5	3.8	1.3	.0	1.3	3.1	.6	.0		17.5	
	11-21	1.3	3.8	.0	2.5	.0	.0	3.1	1.9	.0		12.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.3	11.3	3.8	3.8	.0	1.3	6.3	2.5	.0	.0	30.0	
10+	0-3	4.4	.6	.0	.0	.0	.0	.0	.0	.0	2.5	7.5	
	4-10	1.3	11.3	8.8	11.3	.0	2.5	.0	.0	.0		35.0	
	11-21	2.5	5.0	5.0	5.0	.0	2.5	.0	.0	.0		20.0	
	22+	.0	.0	.0	.0	.0	.0	2.5	.0	.0		2.5	
	TOT %	8.1	16.9	13.8	16.3	.0	5.0	2.5	.0	.0	2.5	65.0	
TOT OBS													40
TOT PCT		9.4	28.1	17.5	20.0	.0	6.3	8.8	7.5	.0	2.5	100.0	

JANUARY

PERIOD: (PRIMARY) 1935-1978
(OVER-ALL) 1879-1978

AREA 0009 ISLE WALLIS
12,85 176,2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8
06&09	.0	.0	.0	16.7	16.7	.0	.0	.0	.0	.0	33.3	66.7	6
12&15	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	20.0	80.0	5
18&21	.0	.0	.0	.0	33.3	16.7	.0	.0	.0	.0	50.0	50.0	6
TOT	0	0	0	2	3	1	0	0	0	0	6	19	25
PCT	.0	.0	.0	8.0	12.0	4.0	.0	.0	.0	.0	24.0	76.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	7.1	14.3	78.6	14
06&09	.0	.0	.0	16.7	.0	83.3	6
12&15	.0	.0	.0	.0	60.0	40.0	15
18&21	.0	.0	.0	.0	14.3	85.7	7
TOT	0	0	0	2	12	28	42
PCT	.0	.0	.0	4.8	28.6	66.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NM >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	12.5	.0	87.5	8
06&09	.0	.0	16.7	16.7	66.7	6
12&15	.0	.0	20.0	.0	80.0	5
18&21	.0	.0	.0	50.0	50.0	6
TOT	0	0	3	4	18	25
PCT	.0	.0	12.0	16.0	72.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	11.8	5.9	.0	6	17.6
80/84	.0	.0	.0	.0	2.9	17.6	32.4	23.5	26	76.5
75/79	.0	.0	.0	.0	.0	2.9	.0	2.9	2	5.9
TOTAL	0	0	0	0	1	11	13	9	34	100.0
PCT	.0	.0	.0	.0	2.9	32.4	38.2	26.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
2.9	8.8	.0	.0	.0	.0	2.2	3.7	.0	.0
10.3	17.6	13.2	16.2	.0	7.4	8.1	3.7	.0	.0
2.2	3.7	.0	.0	.0	.0	.0	.0	.0	.0
15.4	30.1	13.2	16.2	.0	7.4	10.3	7.4	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	88	88	86	78	78	78	85.1	18
06&09	85	84	84	83	81	81	81	82.8	6
12&15	89	88	88	81	78	78	78	81.7	24
18&21	83	82	82	82	80	80	80	81.3	7
TOT	89	88	88	82	78	78	78	82.9	55

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	70.0	20.0	10.0	77	10
06&09	.0	.0	20.0	40.0	40.0	.0	78	5
12&15	.0	.0	7.7	.0	38.5	53.8	89	13
18&21	.0	.0	.0	28.6	57.1	14.3	83	7
TOT	0	0	2	11	13	9	83	35

JANUARY

PERIOD: (PRIMARY) 1935-1978
(OVER-ALL) 1879-1978

AREA 0009 ISLE WALLIS
12.8S 176.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
5	.0	.0	.0	2.9	1	.0	2.9
3	.0	2.9	2.9	.0	2	.0	5.7
2	.0	.0	2.9	.0	1	.0	2.9
1	.0	2.9	5.7	.0	3	.0	8.6
0	.0	11.4	.0	.0	4	.0	11.4
-1	2.9	11.4	.0	.0	5	2.9	11.4
-2	.0	17.1	2.9	.0	7	5.7	14.3
-3	.0	5.7	.0	.0	2	.0	5.7
-4	.0	5.7	.0	.0	2	.0	5.7
-5	2.9	.0	.0	.0	1	.0	2.9
-6	5.7	.0	.0	.0	2	.0	5.7
-7/-8	5.7	2.9	.0	.0	3	.0	8.6
-9/-10	5.7	.0	.0	.0	2	.0	5.7
TOTAL	8	21	5	1	35	3	32
PCT	22.9	60.0	14.3	2.9	100.0	8.6	91.4

PERIOD: (OVER-ALL) 1968-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.8	9.1	.0	.0	.0	15.9
3-4	.0	.0	9.1	.0	.0	.0	9.1
5-6	.0	9.1	.0	.0	.0	.0	9.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.9	18.2	.0	.0	.0	34.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	20.5	.0	.0	.0	.0	20.5
3-4	.0	.0	9.1	.0	.0	.0	9.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	20.5	9.1	.0	.0	.0	29.5

PERIOD: (OVER-ALL) 1963-1978

JANUARY

AREA 0009 ISLE WALLIS
12.8S 176.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	9.1	.0	.0	.0	9.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	9.1	.0	.0	.0	9.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	6.8	.0	9.1	.0	.0	15.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.8	.0	9.1	.0	.0	15.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.3	.0	9.1	.0	.0	11.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.0	9.1	.0	.0	11.4

* TOTAL

HGT	PCT
<1	.0
1-2	.0
3-4	11.4
5-6	.0
7	.0
8-9	.0
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	8.3	25.0	16.7	.0	.0	.0	50.0	
3-4	.0	8.3	16.7	16.7	.0	.0	41.7	
5-6	.0	8.3	.0	.0	.0	.0	8.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.3	41.7	33.3	16.7	.0	.0	100.0	12

PERIOD: (OVER-ALL) 1961-1978

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	5.9	29.4	11.8	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
6-7	.0	.0	17.6	11.8	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	1	26
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
TOTAL	0	1	8	5	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	17	5
PCT	.0	5.9	47.1	29.4	5.9	5.9	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1943-1978
(OVER-ALL) 1879-1978

AREA 0009 ISLE WALLIS
12.8S 176.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	10.3	.0	.0	.0	.0	.0	10.3	.0	.0	.0	.0	.0		.0	89.7
NE	8.0	24.0	.0	.0	.0	.0	.0	32.0	.0	.0	.0	.0	.0		.0	68.0
E	6.8	22.7	.0	.0	.0	.0	.0	29.5	.0	.0	.0	.0	.0		.0	70.5
SE	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0		.0	87.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0		.0	75.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
W	.0	50.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0		.0	50.0
NW	19.4	14.5	6.5	.0	.0	.0	.0	40.3	6.5	.0	6.5	.0	.0		.0	46.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	8.3	13.9	1.4	.0	.0	.0	.0	23.6	1.4	1.4	1.4	.0	.0		.0	72.2
TOT OBS:	72															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	15.2	12.1	.0	.0	.0	.0	.0	27.3	.0	.0	.0	.0	.0		.0	72.7
06&09	.0	13.3	6.7	.0	.0	.0	.0	20.0	6.7	.0	.0	.0	.0		.0	73.3
12&15	7.1	14.3	.0	.0	.0	.0	.0	21.4	.0	.0	7.1	.0	.0		.0	71.4
18&21	.0	18.2	.0	.0	.0	.0	.0	18.2	.0	9.1	.0	.0	.0		.0	72.7
TOT PCT	8.2	13.7	1.4	.0	.0	.0	.0	23.3	1.4	1.4	1.4	.0	.0		.0	72.6
TOT OBS:	73															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.5	7.4	9.1	1.2	.0	.0		21.2	9.9	22.4	.0	7.7	.0	17.6	.0	35.0	.0
NE	.0	14.4	3.2	2.4	.0	.0		20.0	11.1	20.5	.0	17.3	.0	30.9	.0	10.0	.0
E	1.2	8.8	5.9	.0	.0	.0		15.9	8.8	14.1	.0	28.8	100.0	10.3	.0	10.0	.0
SE	1.2	9.7	.9	.0	.0	.0		11.8	8.1	14.7	.0	7.7	.0	13.2	.0	6.7	.0
S	.0	4.7	.0	.0	.0	.0		4.7	9.1	4.5	.0	.0	.0	7.4	.0	6.7	.0
SW	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.9	.0	.9	.0	.0		1.8	16.0	.0	.0	.0	.0	4.4	.0	5.0	.0
NW	1.2	9.4	5.6	5.0	.0	.0		21.2	14.2	21.2	.0	23.1	.0	16.2	.0	26.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5							3.5	.0	2.6	.0	15.4	.0	.0	.0	.0	.0
TOT OBS	9	47	21	8	0	0	85		10.4	39	0	13	1	17	0	15	0
TOT PCT	10.6	55.3	24.7	9.4	.0	.0		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	8.5	10.6	.9	1.2	.0		21.2	9.9	22.4	7.1	17.6	35.0
NE	3.2	13.2	2.4	1.2	.0		20.0	11.1	20.5	16.1	30.9	10.0
E	3.8	11.5	.6	.0	.0		15.9	8.8	14.1	33.9	10.3	10.0
SE	3.5	7.6	.6	.0	.0		11.8	8.1	14.7	7.1	13.2	6.7
S	.0	4.7	.0	.0	.0		4.7	9.1	4.5	.0	7.4	6.7
SW	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
W	.9	.0	.9	.0	.0		1.8	16.0	.0	.0	4.4	5.0
NW	7.1	6.5	2.9	4.7	.0		21.2	14.2	21.2	21.4	16.2	26.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.5						3.5	.0	2.6	14.3	.0	.0
TOT OBS	26	46	7	6	0	85		10.4	39	14	17	15
TOT PCT	30.6	54.1	8.2	7.1	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1943-1978
(OVER-ALL) 1879-1978

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12.8S 176.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.6	10.3	59.0	23.1	5.1	.0	.0	9.6	100.0	39
06&09	14.3	7.1	42.9	14.3	21.4	.0	.0	10.7	100.0	14
12&15	.0	5.9	52.9	41.2	.0	.0	.0	10.4	100.0	17
18&21	.0	.0	60.0	20.0	20.0	.0	.0	12.3	100.0	15
TOT	3	6	47	21	8	0	0	10.4		85
PCT	3.5	7.1	55.3	24.7	9.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	7.3	8.5	.0		4.6
NE	.0	.6	.6	9.8		7.5
E	.0	4.3	10.4	8.5		6.1
SE	.0	2.4	4.3	6.1		6.3
S	.0	.0	4.3	.0		5.5
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	1.8		8.0
NW	.0	.0	8.5	15.2		7.4
VAR	.0	.0	.0	.0		.0
CALM	2.4	4.9	.0	.0		3.0
TOT OBS	1	8	15	17	41	6.1
TOT PCT	2.4	19.5	36.6	41.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2499	2500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.9	
NE	.0	.0	.0	2.4	2.4	.0	.0	.0	.0	.0	8.1	
E	.0	.0	2.4	.0	6.1	.0	.0	.0	.0	.0	14.6	
SE	.0	.0	.0	2.4	1.2	.0	.0	.0	.0	.0	9.1	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	
NW	2.4	.0	3.0	4.9	.0	.0	4.9	.0	.0	.0	8.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	
TOT OBS	1	0	3	4	4	0	2	0	0	0	27	41
TOT PCT	2.4	.0	7.3	9.8	9.8	.0	4.9	.0	.0	.0	65.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	2.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8
= OR >2000	2.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8
= OR >1000	7.1	16.7	16.7	16.7	16.7	16.7	16.7	16.7
= OR >600	9.5	21.4	23.8	23.8	23.8	26.2	26.2	26.2
= OR >300	11.9	26.2	31.0	31.0	31.0	33.3	33.3	33.3
= OR >150	11.9	26.2	31.0	31.0	31.0	33.3	33.3	33.3
= OR > 0	11.9	26.2	33.3	33.3	33.3	35.7	35.7	35.7
TOTAL	5	11	14	14	14	15	15	15

TOTAL NUMBER OF OBS: 42 PCT FREQ NH <5/8: 64.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.0	4.3	12.8	27.7	17.0	8.5	8.5	4.3	14.9	2.1	47

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PERIOD: (PRIMARY) 1943-1978
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
	PCP	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	1.4	.0	.0	1.0	1.7	.0	.0	4.2	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	1.4	.0	.0	1.0	1.7	.0	.0	4.2	
	PCP	.7	2.8	3.1	.3	.0	.0	.0	4.2	.0	.0	11.1	
5<10	NO PCP	2.1	2.8	1.4	2.1	.7	.0	.0	2.1	.0	.0	11.1	
	TOT %	2.8	5.6	4.5	2.4	.7	.0	.0	6.3	.0	.0	22.2	
	PCP	1.4	.0	1.4	.0	.0	.0	.0	2.8	.0	.0	5.6	
10+	NO PCP	16.0	9.0	9.4	10.1	4.9	.0	1.0	10.8	.0	4.2	65.3	
	TOT %	17.4	9.0	10.8	10.1	4.9	.0	1.0	13.5	.0	4.2	70.8	
	TOT OBS												72
	TOT PCT	20.1	17.4	15.3	13.9	5.6	.0	2.1	21.5	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	1.4	.0	.0	.0	.0	.0	.0	.0		1.4	
	TOT %	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	1.4	.0	.0	.0	.0	.0	.0	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.0	1.4	.0	.0	.0	.0	.0		1.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	1.0	1.7	.0		2.8	
	TOT %	.0	.0	.0	1.4	.0	.0	1.0	1.7	.0	.0	4.2	
	0-3	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
5<10	4-10	.0	3.5	1.4	1.4	.7	.0	.0	1.4	.0		8.3	
	11-21	1.4	2.1	3.1	1.0	.0	.0	.0	2.1	.0		9.7	
	22+	.0	.0	.0	.0	.0	.0	.0	2.8	.0		2.8	
	TOT %	2.8	5.6	4.5	2.4	.7	.0	.0	6.3	.0	.0	22.2	
	0-3	2.8	.0	1.4	1.4	.0	.0	.0	1.4	.0	4.2	11.1	
10+	4-10	7.6	9.0	6.6	8.7	4.9	.0	1.0	8.0	.0		45.8	
	11-21	5.6	.0	2.8	.0	.0	.0	.0	2.8	.0		11.1	
	22+	1.4	.0	.0	.0	.0	.0	.0	1.4	.0		2.8	
	TOT %	17.4	9.0	10.8	10.1	4.9	.0	1.0	13.5	.0	4.2	70.8	
	TOT OBS												72
	TOT PCT	20.1	17.4	15.3	13.9	5.6	.0	2.1	21.5	.0	4.2	100.0	

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PERIOD: (PRIMARY) 1943-1978
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	6.7	.0	.0	.0	13.3	.0	6.7	.0	.0	.0	26.7	73.3	15
06&09	.0	.0	13.3	6.7	13.3	.0	6.7	.0	.0	.0	40.0	60.0	15
12&15	.0	.0	.0	25.0	25.0	.0	.0	.0	.0	.0	50.0	50.0	4
18&21	.0	.0	10.0	20.0	.0	.0	.0	.0	.0	.0	30.0	70.0	10
TOT	1	0	3	4	5	0	2	0	0	0	15	29	44
PCT	2.3	.0	6.8	9.1	11.4	.0	4.5	.0	.0	.0	34.1	65.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	3.0	.0	3.0	12.1	81.8	33
06&09	6.7	.0	.0	.0	20.0	73.3	15
12&15	.0	.0	.0	7.1	64.3	28.6	14
18&21	.0	.0	.0	9.1	9.1	81.8	11
TOT	1	1	0	3	17	51	73
PCT	1.4	1.4	.0	4.1	23.3	69.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	6.7	13.3	13.3	20.0	66.7	15
06&09	.0	20.0	20.0	20.0	60.0	15
12&15	.0	.0	50.0	50.0	.0	2
18&21	.0	10.0	30.0	.0	70.0	10
TOT	1	6	9	7	26	42
PCT	2.4	14.3	21.4	16.7	61.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	1.5	1.5	2	3.0
85/89	.0	.0	.0	.0	.0	16.7	3.0	6.1	17	25.8
80/84	.0	.0	.0	.0	3.0	10.6	30.3	10.6	36	54.5
75/79	.0	.0	.0	.0	.0	.0	6.1	10.6	11	16.7
TOTAL	0	0	0	0	2	18	27	19	66	100.0
PCT	.0	.0	.0	.0	3.0	27.3	40.9	28.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0
6.4	3.4	6.4	4.2	1.1	.0	.0	2.7	.0	1.5
12.1	17.4	6.4	2.7	.0	.0	1.1	13.3	.0	1.5
1.1	1.9	5.3	2.3	1.1	.0	1.1	3.8	.0	.0
19.7	22.7	18.2	12.1	2.3	.0	2.3	19.7	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	89	84	78	75	75	83.3	37
06&09	86	85	85	81	76	76	76	81.8	14
12&15	84	83	83	81	79	79	79	81.4	17
18&21	85	84	84	82	76	76	76	81.1	14
TOT	90	89	86	82	78	75	75	82.3	82

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	20.7	34.5	44.8	86	29
06&09	.0	.0	.0	41.7	41.7	16.7	83	12
12&15	.0	.0	14.3	21.4	50.0	14.3	82	14
18&21	.0	.0	.0	30.8	53.8	15.4	84	13
TOT	0	0	2	18	29	19	84	68

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	1.9	1	.0	1.9
5	.0	.0	.0	.0	1.9	1	.0	1.9
3	.0	.0	.0	1.9	.0	1	.0	1.9
2	.0	.0	1.9	.0	.0	1	.0	1.9
1	.0	.0	3.7	1.9	.0	3	.0	5.6
0	.0	1.9	7.4	5.6	.0	8	.0	14.8
-1	.0	3.7	7.4	3.7	.0	8	.0	14.8
-2	.0	1.9	14.8	1.9	.0	10	1.9	16.7
-3	1.9	3.7	5.6	.0	.0	6	.0	11.1
-4	.0	1.9	1.9	5.6	.0	5	.0	9.3
-5	.0	7.4	3.7	.0	.0	6	.0	11.1
-6	.0	.0	1.9	.0	.0	1	.0	1.9
-7/-8	.0	3.7	.0	.0	.0	2	.0	3.7
-9/-10	1.9	.0	.0	.0	.0	1	.0	1.9
TOTAL	2	13	26	11	2	54	1	53
PCT	3.7	24.1	48.1	20.4	3.7	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.4	.0	.0	.0	.0	.0	3.4
1-2	.0	10.3	.0	.0	.0	.0	10.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	3.4	.0	.0	3.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.4	10.3	.0	3.4	.0	.0	17.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.3	.0	.0	.0	.0	4.3
3-4	.0	.9	.0	3.4	.0	.0	4.3
5-6	.0	.0	3.4	.0	.0	.0	3.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	3.4	3.4	.0	.0	12.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.4	.0	.0	.0	.0	.0	3.4
1-2	.0	6.0	3.4	.0	.0	.0	9.5
3-4	.0	2.6	6.9	.0	.0	.0	9.5
5-6	.0	2.6	2.6	.0	.0	.0	5.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.4	11.2	12.9	.0	.0	.0	27.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.8	.0	.0	.0	.0	7.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.9	.9	.0	.0	.0	1.7
7	.0	3.4	.0	.0	.0	.0	3.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.1	.9	.0	.0	.0	12.9

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.6	.0	.0	.0	.0	2.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	.0	.0	.0	.0	2.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.6	.0	.0	.0	.0	2.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	2.6	.0	.0	2.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	.0	2.6	.0	.0	5.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.9	3.4	.0	.0	.0	4.3	
3-4	.0	3.4	.0	3.4	.0	.0	6.9	
5-6	.0	.0	3.4	.0	.0	.0	3.4	
7	.0	.0	.0	.9	.0	.0	.9	
8-9	.0	.0	.0	3.4	.0	.0	3.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.3	6.9	7.8	.0	.0	19.0	96.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.3	.0	.0	.0	.0	.0	10.3	
1-2	.0	34.5	6.9	.0	.0	.0	41.4	
3-4	.0	6.9	6.9	6.9	.0	.0	20.7	
5-6	.0	3.4	10.3	.0	.0	.0	13.8	
7	.0	3.4	.0	3.4	.0	.0	6.9	
8-9	.0	.0	.0	3.4	.0	.0	3.4	
10-11	.0	.0	.0	3.4	.0	.0	3.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.3	48.3	24.1	17.2	.0	.0	100.0	29

PERIOD: (OVER-ALL) 1957-1978

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	14.3	8.6	11.4	2.9	8.6	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
6-7	.0	.0	5.7	5.7	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
8-9	.0	2.9	5.7	.0	.0	2.9	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
10-11	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	5.7	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	.0	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
TOTAL	0	7	11	7	3	4	1	0	2	0	0	0	0	0	0	0	0	0	0	35	5
PCT	.0	20.0	31.4	20.0	8.6	11.4	2.9	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1933-1976
(OVER-ALL) 1898-1976

AREA 0009 ISLE WALLIS
12.7S 176.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	ND SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44.4	.0	.0	.0	.0	55.6
NE	.0	9.1	.0	.0	.0	.0	.0	5.1	10.3	.0	.0	.0	.0	.0	.0	84.6
E	.0	4.0	6.0	.0	.0	.0	.0	10.0	6.0	.0	12.0	.0	.0	.0	.0	72.0
SE	.0	.0	4.8	.0	.0	.0	.0	4.8	4.8	.0	9.5	.0	.0	.0	.0	81.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0
W	.0	9.5	.0	.0	.0	.0	.0	9.5	52.4	.0	.0	.0	.0	.0	.0	38.1
NW	.0	26.1	.0	.0	.0	.0	.0	26.1	.0	.0	.0	.0	.0	.0	.0	73.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	6.7	2.2	.0	.0	.0	.0	8.9	11.1	.0	6.7	.0	.0	.0	.0	73.3
TOT OBS:	45															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	ND SIG WEA
00&03	.0	.0	5.0	.0	.0	.0	.0	5.0	15.0	.0	5.0	.0	.0	.0	.0	75.0
06&09	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	85.7
12&15	.0	20.0	.0	.0	.0	.0	.0	20.0	6.7	6.7	13.3	.0	.0	.0	.0	53.3
18&21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	6.5	2.2	.0	.0	.0	.0	8.7	10.9	2.2	6.5	.0	.0	.0	.0	71.7
TOT OBS:	46															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	9.2	1.5	.0	.0	.0		10.8	7.9	11.6	.0	.0	.0	12.5	.0	20.0	.0
NE	4.2	9.2	6.2	.0	.0	.0		19.6	8.2	25.0	.0	11.1	.0	17.0	.0	15.0	25.0
E	7.3	22.3	1.2	.0	.0	.0		30.8	5.5	30.4	.0	22.2	.0	29.5	.0	45.0	75.0
SE	3.8	3.5	3.5	.0	.0	.0		10.8	6.8	15.2	.0	11.1	.0	8.0	.0	.0	.0
S	.0	1.5	.0	.0	.0	.0		1.5	6.0	3.6	.0	.0	.0	.0	.0	.0	.0
SW	.0	.4	.0	.0	.0	.0		.4	6.0	.9	.0	.0	.0	.0	.0	.0	.0
W	1.5	2.3	3.5	.0	1.9	.0		9.2	14.8	8.9	.0	11.1	.0	8.0	.0	15.0	.0
NW	1.5	3.8	2.7	1.5	1.2	.0		10.8	14.4	.9	.0	33.3	.0	15.9	.0	5.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2							6.2	.0	3.6	.0	11.1	.0	9.1	.0	.0	.0
TOT OBS	16	34	12	1	2	0	65		7.9	28	0	9	0	22	0	5	1
TOT PCT	24.6	52.3	18.5	1.5	3.1	.0		100.0		100.0	.0	100.0	.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.6	6.2	.0	.0	.0		10.8	7.9	11.6	.0	12.5	16.7
NE	7.3	12.3	.0	.0	.0		19.6	8.2	25.0	11.1	17.0	16.7
E	21.2	9.6	.0	.0	.0		30.8	5.5	30.4	22.2	29.5	90.0
SE	5.4	5.4	.0	.0	.0		10.8	6.8	15.2	11.1	8.0	.0
S	1.5	.0	.0	.0	.0		1.5	6.0	3.6	.0	.0	.0
SW	.4	.0	.0	.0	.0		.4	6.0	.9	.0	.0	.0
W	3.8	2.7	1.9	.0			9.2	14.8	8.9	11.1	8.0	12.5
NW	1.9	5.4	2.3	1.2	.0		10.8	14.4	.9	33.3	15.9	4.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.2						6.2	.0	3.6	11.1	9.1	.0
TOT OBS	34	27	2	2	0	65		7.9	28	9	22	6
TOT PCT	52.3	41.5	3.1	3.1	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1933-1976
(OVER-ALL) 1898-1976

AREA 0009 ISLE WALLIS
12.7S 176.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.6	21.4	53.6	21.4	.0	.0	.0	6.7	100.0	28
06&09	22.2	22.2	44.4	33.3	.0	.0	.0	8.2	100.0	9
12&15	9.1	13.6	50.0	13.6	4.5	9.1	.0	10.5	100.0	22
18&21	.0	33.3	66.7	.0	.0	.0	.0	4.0	100.0	6
TOT	4	12	34	12	1	2	0	7.9		65
PCT	6.2	18.5	52.3	18.5	1.5	3.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	3.3	.0		7.0
NE	4.3	6.5	18.5	.0		5.0
E	3.3	2.2	15.2	.0		5.1
SE	5.4	4.3	1.1	.0		3.1
S	.0	.0	4.3	.0		7.0
SW	.0	1.1	.0	.0		4.0
W	.0	3.3	4.3	3.3		6.4
NW	.0	4.3	1.1	5.4		6.3
VAR	.0	.0	.0	.0		.0
CALM	4.3	4.3	.0	.0		3.0
TOT OBS	4	6	11	2	23	5.0
TOT PCT	17.4	26.1	47.8	8.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	4.3	.0	4.3	.0	.0	.0	.0	20.7	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.7	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
W	.0	.0	.0	3.3	4.3	.0	.0	.0	.0	.0	3.3	
NW	.0	.0	.0	1.1	5.4	.0	.0	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	
TOT OBS	0	0	0	2	3	1	0	0	0	0	17	23
TOT PCT	.0	.0	.0	8.7	13.0	4.3	.0	.0	.0	.0	73.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
* OR >1000	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
* OR >600	21.7	21.7	26.1	26.1	26.1	26.1	26.1	26.1
* OR >300	21.7	21.7	26.1	26.1	26.1	26.1	26.1	26.1
* OR >150	21.7	21.7	26.1	26.1	26.1	26.1	26.1	26.1
* OR > 0	21.7	21.7	26.1	26.1	26.1	26.1	26.1	26.1
TOTAL	5	5	6	6	6	6	6	6

TOTAL NUMBER OF OBS: 23

PCT FREQ NH <5/8: 73.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.0	8.0	28.0	32.0	8.0	8.0	8.0	.0	8.0	.0	25

MARCH

PERIOD: (PRIMARY) 1933-1976
(OVER-ALL) 1898-1976

AREA 0009 ISLE WALLIS
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	5.0	1.7	.0	.0	6.7	
	TOT %	.0	.0	.0	.0	.0	.0	5.0	1.7	.0	.0	6.7	
5<10	PCP	.0	.0	.0	.0	.0	.0	1.1	3.3	.0	.0	4.4	
	NO PCP	2.2	.6	7.2	3.3	.0	.0	.0	2.2	.0	.0	15.6	
	TOT %	2.2	.6	7.2	3.3	.0	.0	1.1	5.6	.0	.0	20.0	
10+	PCP	.0	1.1	2.8	.6	.0	.0	.0	.0	.0	.0	4.4	
	NO PCP	2.8	20.0	17.8	7.8	2.2	.6	5.6	5.6	.0	6.7	68.9	
	TOT %	2.8	21.1	20.6	8.3	2.2	.6	5.6	5.6	.0	6.7	73.3	
	TOT OBS												45
	TOT PCT	5.0	21.7	27.8	11.7	2.2	.6	11.7	12.8	.0	6.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	2.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	1.7	.6	.0		2.2	
	22+	.0	.0	.0	.0	.0	.0	1.1	1.1	.0		2.2	
	TOT %	.0	.0	.0	.0	.0	.0	5.0	1.7	.0	.0	6.7	
5<10	0-3	.0	.0	1.1	3.3	.0	.0	.0	.0	.0	.0	4.4	
	4-10	2.2	.6	6.1	.0	.0	.0	.0	2.2	.0		11.1	
	11-21	.0	.0	.0	.0	.0	.0	1.1	1.1	.0		2.2	
	22+	.0	.0	.0	.0	.0	.0	.0	2.2	.0		2.2	
	TOT %	2.2	.6	7.2	3.3	.0	.0	1.1	5.6	.0	.0	20.0	
10+	0-3	.0	3.3	4.4	1.1	.0	.0	.0	2.2	.0	6.7	17.8	
	4-10	2.8	8.9	14.4	4.4	2.2	.6	3.3	1.1	.0		37.8	
	11-21	.0	8.9	1.7	2.8	.0	.0	2.2	2.2	.0		17.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.8	21.1	20.6	8.3	2.2	.6	5.6	5.6	.0	6.7	73.3	
	TOT OBS												45
	TOT PCT	5.0	21.7	27.8	11.7	2.2	.6	11.7	12.8	.0	6.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	18.2	.0	9.1	.0	.0	.0	.0	27.3	72.7	11
06&09	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0	28.6	71.4	7
12&15	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	33.3	66.7	3
18&21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4
TOT	0	0	0	2	3	1	0	0	0	0	6	19	25
PCT	.0	.0	.0	8.0	12.0	4.0	.0	.0	.0	.0	24.0	76.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	10.0	5.0	85.0	20
06&09	.0	.0	.0	.0	.0	100.0	7
12&15	.0	.0	.0	6.7	46.7	46.7	15
18&21	.0	.0	.0	.0	25.0	75.0	4
TOT	0	0	0	3	9	34	46
PCT	.0	.0	.0	6.5	19.6	73.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	18.2	9.1	72.7	11
06&09	.0	.0	.0	28.6	71.4	7
12&15	.0	.0	.0	50.0	50.0	2
18&21	.0	.0	.0	.0	100.0	3
TOT	0	0	2	4	17	23
PCT	.0	.0	8.7	17.4	73.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	2.7	.0	.0	1	2.7
85/89	.0	.0	.0	.0	8.1	5.4	.0	.0	5	13.5
80/84	.0	.0	2.7	.0	5.4	18.9	48.6	.0	28	75.7
75/79	.0	.0	.0	.0	.0	.0	.0	5.4	2	5.4
70/74	.0	.0	.0	.0	.0	2.7	.0	.0	1	2.7
TOTAL	0	0	1	0	5	11	18	2	37	100.0
PCT	.0	.0	2.7	.0	13.5	29.7	48.6	5.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0
.0	2.7	4.1	1.4	.0	.7	2.0	.0	.0	2.7
7.4	16.2	21.6	8.1	2.7	.0	6.1	10.8	.0	2.7
.0	.0	.0	.0	.0	.0	2.0	3.4	.0	.0
.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0
7.4	21.6	25.7	12.2	2.7	.7	10.1	14.2	.0	5.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	95	94	91	84	79	71	71	84.4	25
06&09	84	83	83	83	81	81	81	83.0	9
12&15	84	83	83	82	80	78	78	81.9	23
18&21	82	81	81	81	80	80	80	81.5	6
TOT	95	94	87	83	80	71	71	83.0	63

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	20.0	40.0	33.3	6.7	76	15
06&09	.0	12.5	25.0	25.0	37.5	.0	73	8
12&15	.0	.0	.0	22.2	66.7	11.1	84	9
18&21	.0	.0	.0	20.0	80.0	.0	82	5
TOT	0	1	5	11	18	2	78	37

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	2.6	1	.0	2.6
4	.0	.0	2.6	.0	1	.0	2.6
2	.0	.0	2.6	.0	1	.0	2.6
1	.0	5.3	.0	.0	2	.0	5.3
0	.0	13.2	5.3	.0	7	2.6	15.8
-1	.0	13.2	2.6	.0	6	2.6	13.2
-2	.0	26.3	.0	.0	10	2.6	23.7
-3	.0	7.9	.0	.0	3	.0	7.9
-4	5.3	2.6	.0	.0	3	.0	7.9
-5	.0	2.6	.0	.0	1	.0	2.6
-6	2.6	.0	.0	.0	1	.0	2.6
-9/-10	2.6	.0	.0	.0	1	.0	2.6
-11/-13	2.6	.0	.0	.0	1	.0	2.6
TOTAL	5	27	5	1	38	3	35
PCT	13.1	71.1	13.2	2.6	100.0	7.9	92.1

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	4.4	.0	.0	.0	.0	4.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	.0	.0	.0	.0	4.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.4	5.9	.0	.0	.0	13.2
3-4	.0	.0	17.6	.0	.0	.0	17.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.4	23.5	.0	.0	.0	30.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.9	.0	.0	.0	.0	5.9
1-2	.0	8.8	.0	.0	.0	.0	8.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	4.4	.0	.0	.0	4.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.7	4.4	.0	.0	.0	19.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.4	.0	.0	.0	.0	7.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.4	1.5	.0	.0	.0	8.8

PERIOD: (OVER-ALL) 1963-1976 MARCH AREA 0009 ISLE WALLIS

TABLE 18 (CONT) 12.7S 176.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.9	.0	.0	.0	.0	5.9
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.9	.0	.0	.0	.0	5.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.0	.0	.0	.0	1.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.4	.0	.0	.0	.0	4.4
1-2	.0	.0	5.9	.0	.0	.0	5.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	5.9	.0	.0	.0	10.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	5.9	.0	5.9	.0	.0	.0	11.8	
3-4	.0	1.5	.0	.0	.0	.0	1.5	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	1.5	5.9	.0	.0	.0	13.2	94.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.9	17.6	.0	.0	.0	.0	23.5	
1-2	5.9	23.5	17.6	.0	.0	.0	47.1	
3-4	.0	5.9	17.6	.0	.0	.0	23.5	
5-6	.0	.0	5.9	.0	.0	.0	5.9	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								17
TOT PCT	11.8	47.1	41.2	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1953-1976 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	10.0	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	2
6-7	.0	5.0	15.0	10.0	5.0	5.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
8-9	.0	.0	10.0	5.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
10-11	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	3	8	3	1	1	2	0	1	0	0	0	0	0	0	0	0	0	0	20	5
PCT	5.0	15.0	40.0	15.0	5.0	5.0	10.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1934-1977
(OVER-ALL) 1878-1977

AREA 0009 ISLE WALLIS
12.8S 176.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	ND SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7		.0	83.3
NE	.0	7.1	.0	.0	.0	.0	.0	7.1	.0	.0	.0	.0	14.3		.0	78.6
E	.0	5.1	.0	.0	.0	.0	.0	5.1	.0	10.2	.0	.0	.0		.0	84.7
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.0		.0	96.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	.0	66.7	.0	.0	.0	.0	66.7	.0	.0	.0	.0	.0		.0	33.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	28.6	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0		.0	71.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.2	2.2	2.2	.0	.0	.0	.0	6.5	.0	4.3	.0	.0	2.2		.0	87.0
TOT OBS:	46															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	ND SIG WEA
00&03	.0	7.1	.0	.0	.0	.0	.0	7.1	.0	.0	7.1	.0	.0		.0	85.7
06&09	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0		.0	85.7
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	5.6		.0	83.3
18&21	.0	.0	11.1	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0		.0	88.9
TOT PCT	2.1	2.1	2.1	.0	.0	.0	.0	6.3	.0	4.2	2.1	.0	2.1		.0	85.4
TOT OBS:	48															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	5.4	.0	.0	.0	.0		6.7	5.0	12.5	.0	9.4	.0	5.7	.0	.0	.0
NE	.8	4.6	.4	.0	.0	.0		5.8	5.9	10.9	.0	3.1	.0	6.8	.0	.0	.0
E	5.8	17.5	7.5	.0	.0	.0		30.8	8.6	37.5	.0	31.3	.0	28.4	.0	34.1	.0
SE	.0	18.8	12.1	.0	.0	.0		30.8	10.3	34.4	.0	9.4	50.0	36.4	100.0	20.5	.0
S	.0	5.4	.0	.0	.0	.0		5.4	7.7	4.7	.0	9.4	.0	3.4	.0	9.1	.0
SW	.0	2.9	.0	.0	.0	.0		2.9	6.1	.0	.0	9.4	.0	.0	.0	9.1	.0
W	1.7	2.1	2.9	.0	.0	.0		6.7	9.1	.0	.0	15.6	.0	4.5	.0	15.9	.0
NW	2.1	.0	.4	3.3	.0	.0		5.8	14.9	.0	.0	.0	50.0	10.2	.0	2.3	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0	.0	.0	12.5	.0	4.5	.0	9.1	.0
TOT OBS	10	34	14	2	0	0	60		8.6	16	0	8	2	22	1	11	0
TOT PCT	16.7	56.7	23.3	3.3	.0	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.4	1.3	.0	.0	.0		6.7	5.0	12.5	7.5	5.4	.0
NE	3.3	2.5	.0	.0	.0		5.8	5.9	10.9	2.5	6.5	.0
E	10.0	19.2	1.7	.0	.0		30.8	8.6	37.5	25.0	27.2	34.1
SE	5.8	23.3	1.7	.0	.0		30.8	10.3	34.4	17.5	39.1	20.5
S	1.7	3.8	.0	.0	.0		5.4	7.7	4.7	7.5	3.3	9.1
SW	1.7	1.3	.0	.0	.0		2.9	6.1	.0	7.5	.0	9.1
W	1.7	5.0	.0	.0	.0		6.7	9.1	.0	12.5	4.3	15.9
NW	2.1	.4	3.3	.0	.0		5.8	14.9	.0	10.0	9.8	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	.0	10.0	4.3	9.1
TOT OBS	22	34	4	0	0	60		8.6	16	10	23	11
TOT PCT	36.7	56.7	6.7	.0	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1934-1977
(OVER-ALL) 1878-1977

AREA 0009 ISLE WALLIS
12.8S 176.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00403	.0	6.3	56.3	37.5	.0	.0	.0	10.3	100.0	16
06409	10.0	10.0	70.0	.0	10.0	.0	.0	7.8	100.0	10
12415	4.3	21.7	52.2	17.4	4.3	.0	.0	7.6	100.0	23
18421	9.1	.0	54.5	36.4	.0	.0	.0	8.8	100.0	11
TOT	3	7	34	14	2	0	0	8.6		60
PCT	5.0	11.7	56.7	23.3	3.3	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	C-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.8	.0	.0	2.8		5.0
NE	.9	3.7	.9	.0		4.1
E	4.6	7.4	13.9	3.7		5.2
SE	2.8	14.8	12.0	.0		4.2
S	.0	.0	2.8	.0		5.0
SW	.0	.0	5.6	.0		6.3
W	.0	2.8	1.9	3.7		6.0
NW	.0	.9	3.7	4.6		7.2
VAR	.0	.0	.0	.0		.0
CALM	3.7	.0	.0	.0		2.0
TOT OBS	4	8	11	4	27	5.0
TOT PCT	14.8	29.6	40.7	14.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	
NE	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	4.6	
E	.0	.0	2.8	3.7	.0	.0	.0	.0	.0	.0	23.1	
SE	.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	22.2	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
SW	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	1.9	
W	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	4.6	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	
TOT OBS	0	0	2	1	2	1	0	0	0	0	21	27
TOT PCT	.0	.0	7.4	3.7	7.4	3.7	.0	.0	.0	.0	77.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
* OR >1000	7.1	10.7	10.7	10.7	10.7	10.7	10.7	10.7
* OR >600	10.7	14.3	14.3	14.3	14.3	14.3	14.3	14.3
* OR >300	10.7	21.4	21.4	21.4	21.4	21.4	21.4	21.4
* OR >150	10.7	21.4	21.4	21.4	21.4	21.4	21.4	21.4
* OR > 0	10.7	21.4	21.4	21.4	21.4	21.4	21.4	21.4
TOTAL	3	6	6	6	6	6	6	6

TOTAL NUMBER OF OBS: 28 PCT FREQ NH <5/8: 78.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	16.1	9.7	38.7	12.9	9.7	3.2	3.2	6.5	.0	31

APRIL

PERIOD: (PRIMARY) 1934-1977
(OVER-ALL) 1878-1977

AREA 0009 ISLE WALLIS
12.8S 176.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
	TOT %	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.5	1.6	.0	.0	2.2	.0	2.2	.0	.0	6.5	
	NO PCP	.0	3.3	7.6	8.7	.0	.0	2.2	4.3	.0	.0	26.1	
	TOT %	.0	3.8	9.2	8.7	.0	2.2	2.2	6.5	.0	.0	32.6	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	5.4	2.7	22.8	23.4	1.6	1.1	4.9	1.1	.0	2.2	65.2	
	TOT %	5.4	2.7	22.8	23.4	1.6	1.1	4.9	1.1	.0	2.2	65.2	
	TOT OBS												46
	TOT PCT	6.5	7.6	32.1	32.1	1.6	3.3	7.1	7.6	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.1	1.1	.0	.0	.0	.0	.0	.0	.0		2.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	1.1	1.1	.0	.0	.0	2.2	2.2	.0	.0	6.5	
	4-10	.0	2.2	6.5	2.2	.0	2.2	.0	.0	.0		13.0	
	11-21	.0	.5	1.6	6.5	.0	.0	.0	.0	.0		8.7	
	22+	.0	.0	.0	.0	.0	.0	.0	4.3	.0		4.3	
	TOT %	.0	3.8	9.2	8.7	.0	2.2	2.2	6.5	.0	.0	32.6	
10+	0-3	1.6	.0	4.3	.0	.0	.0	.0	.5	.0	2.2	8.7	
	4-10	3.8	2.7	10.3	16.3	1.6	1.1	1.1	.0	.0		37.0	
	11-21	.0	.0	8.2	7.1	.0	.0	3.8	.5	.0		19.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	5.4	2.7	22.8	23.4	1.6	1.1	4.9	1.1	.0	2.2	65.2	
	TOT OBS												46
	TOT PCT	6.5	7.6	32.1	32.1	1.6	3.3	7.1	7.6	.0	2.2	100.0	

APRIL

PERIOD: (PRIMARY) 1934-1977
(OVER-ALL) 1878-1977

AREA 0009 ISLE WALLIS
12.8S 176.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	11.1	.0	.0	.0	.0	.0	.0	.0	11.1	88.9	9
06&09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5
12&15	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	12.5	87.5	8
18&21	.0	.0	12.5	12.5	12.5	12.5	.0	.0	.0	.0	50.0	50.0	8
TOT	0	0	2	1	2	1	0	0	0	0	6	24	30
PCT	.0	.0	6.7	3.3	6.7	3.3	.0	.0	.0	.0	20.0	80.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	35.7	64.3	14
06&09	.0	.0	.0	.0	14.3	85.7	7
12&15	.0	.0	5.6	.0	50.0	44.4	18
18&21	.0	.0	.0	.0	11.1	88.9	9
TOT	0	0	1	0	16	31	48
PCT	.0	.0	2.1	.0	33.3	64.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	12.5	12.5	.0	87.5	8
06&09	.0	.0	.0	.0	100.0	4
12&15	.0	.0	.0	12.5	87.5	8
18&21	.0	12.5	25.0	25.0	50.0	8
TOT	0	2	3	3	22	28
PCT	.0	7.1	10.7	10.7	78.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	2.2	6.5	2.2	.0	5	10.9
80/84	.0	.0	.0	.0	.0	19.6	63.0	4.3	40	87.0
75/79	.0	.0	.0	.0	.0	.0	.0	2.2	1	2.2
TOTAL	0	0	0	0	1	12	30	3	46	100.0
PCT	.0	.0	.0	.0	2.2	26.1	65.2	6.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	4.3	6.5	.0	.0	.0	.0	.0	.0
4.3	7.6	26.1	17.4	4.9	3.8	8.7	7.6	.0	6.5
.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0
4.3	7.6	30.4	23.9	7.1	3.8	8.7	7.6	.0	6.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	85	85	85	82	82	82	84.4	18
06&09	83	82	82	82	80	80	80	81.7	9
12&15	84	83	83	82	81	81	81	82.3	25
18&21	86	85	85	83	76	76	76	82.3	11
TOT	86	85	85	83	81	76	76	82.8	63

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	70.0	30.0	.0	77	10
06&09	.0	.0	.0	12.5	87.5	.0	82	8
12&15	.0	.0	.0	5.6	88.9	5.6	84	18
18&21	.0	.0	9.1	27.3	45.5	18.2	81	11
TOT	0	0	1	12	31	3	81	47

APRIL

PERIOD: (PRIMARY) 1934-1977
(OVER-ALL) 1878-1977

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12.8S 176.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	TOT	W FOG	WO FOG
2	.0	2.2	4.3	3	.0	6.5
1	.0	4.3	4.3	4	.0	8.7
0	.0	10.9	6.5	8	2.2	15.2
-1	.0	13.0	.0	6	.0	13.0
-2	.0	23.9	2.2	12	.0	26.1
-3	.0	2.2	.0	1	.0	2.2
-4	.0	13.0	.0	6	.0	13.0
-5	4.3	2.2	.0	3	.0	6.5
-6	.0	6.5	.0	3	.0	6.5
TOTAL	2	36	8	46	1	45
PCT	4.3	78.3	17.4	100.0	2.2	97.8

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.8	.0	.0	.0	.0	.0	3.8
1-2	.0	3.8	.0	.0	.0	.0	3.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.8	3.8	.0	.0	.0	.0	7.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	[illegible]	.0	.0	.0	.0	1.3
3-4	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	1.3	.0	.0	.0	2.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.0	3.8	.0	.0	.0	8.8
3-4	.0	10.0	8.8	.0	.0	.0	18.8
5-6	.0	.0	5.0	.0	.0	.0	5.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.0	17.5	.0	.0	.0	32.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.3	1.3	.0	.0	.0	7.5
3-4	.0	5.0	10.0	.0	.0	.0	15.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	5.0	.0	.0	.0	5.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.3	16.3	.0	.0	.0	27.5

PERIOD: (OVER-ALL) 1963-1977

APRIL

AREA 0009 ISLE WALLIS
12.85 176.3W

TABLE 1B (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.8	.0	.0	.0	.0	3.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	.0	.0	.0	.0	3.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.0	.0	.0	.0	.0	5.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	.0	.0	.0	.0	5.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.8	.0	.0	.0	3.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.8	.0	.0	.0	3.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.3	.0	.0	.0	.0	.0	1.3	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	1.3	.0	.0	.0	1.3	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	10.0	.0	.0	10.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	.0	1.3	10.0	.0	.0	12.5	95.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.0	.0	.0	.0	.0	.0	10.0	
1-2	.0	25.0	5.0	.0	.0	.0	30.0	
3-4	.0	15.0	25.0	.0	.0	.0	40.0	
5-6	.0	.0	5.0	.0	.0	.0	5.0	
7	.0	.0	5.0	10.0	.0	.0	15.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.0	40.0	40.0	10.0	.0	.0	100.0	20

PERIOD: (OVER-ALL) 1956-1977

TABLE 1F

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.5	4.5	9.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	2
6-7	.0	9.1	9.1	13.6	9.1	.0	13.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
8-9	.0	.0	.0	4.5	4.5	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.5	.0	4.5	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
TOTAL	2	3	5	4	3	0	4	0	0	1	0	0	0	0	0	0	0	0	0	22	5
PCT	9.1	13.6	22.7	18.2	13.6	.0	18.2	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1903-1977
(OVER-ALL) 1866-1977

AREA 0009 ISLE WALLIS
12.6S 176.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	6.3	.0	.0	.0	.0	6.3	6.3	6.3	9.4	.0	.0	.0	.0	71.9
SE	8.5	8.5	.0	.0	.0	.0	.0	17.0	.0	8.5	12.8	.0	.0	.0	.0	61.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	2.9	2.9	.0	.0	.0	.0	8.6	2.9	5.7	8.6	.0	.0	.0	.0	74.3
TOT OBS:	35															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	.0	92.9
06609	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
12615	7.1	7.1	7.1	.0	.0	.0	.0	21.4	.0	14.3	14.3	.0	.0	.0	.0	50.0
18621	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.9	2.9	2.9	.0	.0	.0	.0	8.6	2.9	5.7	8.6	.0	.0	.0	.0	74.3
TOT OBS:	35															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)					
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	09	12	15	18	21
N	.0	1.8	1.4	.0	.0	.0		3.2	11.1	7.3	.0	.0	.0	.0	.0	.0
NE	1.8	3.6	.0	.0	.0	.0		5.5	7.0	8.3	.0	12.5	.0	.0	.0	.0
E	1.8	25.0	16.4	.0	.0	.0		43.2	10.6	44.8	.0	46.9	.0	40.8	.0	37.5	.0
SE	4.1	8.6	17.3	2.7	.0	.0		32.7	12.2	26.0	.0	28.1	.0	40.8	.0	43.8	.0
S	1.4	2.7	.9	.9	.0	.0		5.9	9.2	4.2	.0	.0	.0	7.9	.0	18.8	.0
SW	.0	1.4	.0	.0	.0	.0		1.4	5.3	2.1	.0	3.1	.0	.0	.0	.0	.0
W	.0	2.3	.0	.0	.0	.0		2.3	5.6	2.1	.0	9.4	.0	.0	.0	.0	.0
NW	.0	3.6	.5	.0	.0	.0		4.1	7.7	9.2	.0	.0	.0	5.3	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	.0	.0	.0	.0	5.3	.0	.0	.0
TOT OBS	6	27	20	2	0	0	55		10.4	24	0	8		19	0	4	0
TOT PCT	10.9	49.1	36.4	3.6	.0	.0		100.0		100.0	.0	100.0		100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	12	15	18	21
N	.0	3.2	.0	.0	.0		3.2	11.1	7.3	.0	.0	.0	.0	
NE	1.8	3.6	.0	.0	.0		5.5	7.0	8.3	12.5	.0	.0	.0	
E	9.1	25.0	9.1	.0	.0		43.2	10.6	44.8	46.9	40.8	37.5		
SE	6.8	16.8	9.1	.0	.0		32.7	12.2	26.0	28.1	40.8	43.8		
S	4.1	.0	1.8	.0	.0		5.9	9.2	4.2	.0	7.9	18.8		
SW	1.4	.0	.0	.0	.0		1.4	5.3	2.1	3.1	.0	.0		
W	2.3	.0	.0	.0	.0		2.3	5.6	2.1	9.4	.0	.0		
NW	1.8	2.3	.0	.0	.0		4.1	7.7	9.2	.0	5.3	.0		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.8						1.8	.0	.0	.0	.0	.0		
TOT OBS	16	28	11	0	0	55		10.4	24	8	19	4		
TOT PCT	29.1	50.9	20.0	.0	.0		100.0		100.0	100.0	100.0	100.0		

MAY

PERIOD: (PRIMARY) 1963-1977
(OVER-ALL) 1956-1977

AREA 0009 ISLE WALLIS
13.3S 178.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0003	20	8.3	54.3	29.2	4.2	.0	.0	10.3	100.0	24
0609	.0	3.5	62.5	.0	.0	.0	.0	11.6	100.0	8
1215	5.8	5.3	47.4	36.8	5.3	.0	.0	10.5	100.0	19
1821	.0	.0	25.0	25.0	.0	.0	.0	7.7	100.0	4
TOT	15	17	27	20	2	0	0	10.4		55
PCT	1.8	4.1	49.1	36.4	3.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	7.1		8.0
E	7.1	28.8	14.3	.0		4.0
SE	14.1	1.8	7.1	7.1		4.1
S	5.4	.0	.0	.0		2.0
SW	.0	1.8	.0	.0		4.0
W	.0	5.4	.0	.0		4.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	4	5	3	2	14	4.2
TOT PCT	28.6	35.7	21.4	14.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2499	2500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	
E	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	41.1	
SE	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	28.6	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	2	0	0	0	0	0	0	12	14
TOT PCT	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	85.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5OYD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >1000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >600	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
* OR >300	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
* OR >150	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
* OR > 0	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
TOTAL	2	2	2	2	2	2	2	2

TOTAL NUMBER OF OBS: 14 PCT FREQ NH <5/8: 85.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
6.3	6.3	18.8	25.0	18.8	6.3	12.5	6.3	.0	.0	16

MAY

PERIOD: (PRIMARY) 1903-1977
(OVER-ALL) 1866-1977

AREA 0009 ISLE WALLIS
12.6S 176.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.0	5.7	.0	.0	.0	.0	.0	.0	5.7	
	NO PCP	.0	.0	15.7	11.4	1.4	.0	.0	2.9	.0	.0	31.4	
	TOT %	.0	.0	15.7	17.1	1.4	.0	.0	2.9	.0	.0	37.1	
10+	PCP	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	2.9	
	NO PCP	2.1	8.6	27.1	10.4	2.1	.7	2.1	.7	.0	.0	60.0	
	TOT %	2.1	8.6	30.0	10.4	2.1	.7	2.1	.7	.0	.0	62.9	
	TOT OBS												35
	TOT PCT	2.1	8.6	45.7	33.6	3.6	.7	2.1	3.6	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	2.9	
	4-10	.0	.0	7.1	5.7	1.4	.0	.0	2.9	.0		17.1	
	11-21	.0	.0	5.7	8.6	.0	.0	.0	.0	.0		14.3	
	22+	.0	.0	.0	2.9	.0	.0	.0	.0	.0		2.9	
	TOT %	.0	.0	15.7	17.1	1.4	.0	.0	2.9	.0	.0	37.1	
10+	0-3	.0	2.9	.0	6.4	2.1	.0	.0	.0	.0	.0	11.4	
	4-10	.0	5.7	16.4	3.0	.0	.7	2.1	.0	.0		28.6	
	11-21	2.1	.0	13.6	0.4	.0	.0	.0	.7	.0		22.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.1	8.6	30.0	10.4	2.1	.7	2.1	.7	.0	.0	62.9	
	TOT OBS												35
	TOT PCT	2.1	8.6	45.7	33.6	3.6	.7	2.1	3.6	.0	.0	100.0	

PERIOD: (PRIMARY) 1903-1977
(OVER-ALL) 1866-1977

AREA 0009 ISLE WALLIS
12.6S 176.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5
06&09	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	20.0	80.0	5
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	2
18&21	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0	50.0	2
TOT	0	0	0	2	0	0	0	0	0	0	2	12	14
PCT	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	14.3	85.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	14.3	85.7	14
06&09	.0	.0	.0	.0	.0	100.0	5
12&15	.0	.0	.0	.0	78.6	21.4	14
18&21	.0	.0	.0	.0	.0	100.0	2
TOT	0	0	0	0	11	22	35
PCT	.0	.0	.0	.0	37.1	62.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	.0	.0	100.0	5
06&09	.0	.0	20.0	.0	80.0	5
12&15	.0	.0	.0	.0	100.0	2
18&21	.0	.0	50.0	.0	50.0	2
TOT	0	0	7	0	12	14
PCT	.0	.0	14.3	.0	85.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	10.7	.0	10.7	6	21.4
80/84	.0	.0	.0	.0	3.6	17.9	42.9	7.1	20	71.4
75/79	.0	.0	.0	.0	.0	.0	3.6	3.6	2	7.1
TOTAL	0	0	0	0	1	8	13	6	28	100.0
PCT	.0	.0	.0	.0	3.6	28.6	46.4	21.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	10.7	3.6	7.1	.0	.0	.0	.0	.0	.0
	2.7	.0	32.7	10.7	4.5	.0	.0	.9	.0	.0
	.0	.0	2.7	.9	.0	.9	2.7	.0	.0	.0
	2.7	10.7	38.9	18.8	4.5	.9	2.7	.9	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	87	87	84	82	81	81	84.2	24
06&09	85	84	84	83	79	79	79	82.4	8
12&15	83	82	82	82	78	78	78	81.6	19
18&21	82	81	81	81	79	79	79	81.0	4
TOT	88	87	87	83	79	78	78	82.8	55

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	7.7	15.4	53.8	23.1	83	13
06&09	.0	.0	.0	33.3	33.3	33.3	82	6
12&15	.0	.0	.0	60.0	40.0	.0	79	5
18&21	.0	.0	.0	25.0	50.0	25.0	84	4
TOT	0	0	1	8	13	6	82	28

PERIOD: (PRIMARY) 1903-1977
(OVER-ALL) 1866-1977

AREA 0009 ISLE WALLIS
12.6S 176.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	TOT	W FOG	WO FOG
3	.0	.0	7.1	2	.0	7.1
2	.0	.0	3.6	1	.0	3.6
1	.0	7.1	.0	2	3.6	3.6
0	.0	3.6	.0	1	.0	3.6
-1	.0	32.1	.0	9	3.6	28.6
-2	.0	14.3	.0	4	.0	14.3
-3	.0	10.7	3.6	4	3.6	10.7
-4	.0	7.1	.0	2	.0	7.1
-5	.0	3.6	.0	1	.0	3.6
-6	.0	3.6	.0	1	.0	3.6
-7/-8	3.6	.0	.0	1	.0	3.6
TOTAL	1		4		3	25
		23		28		
PCT	3.6	82.1	14.3	100.0	10.7	89.3

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	10.0	.0	.0	.0	.0	10.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.0	.0	.0	.0	.0	10.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	20.0	10.0	.0	.0	.0	30.0
3-4	.0	.0	17.5	.0	.0	.0	17.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	20.0	27.5	.0	.0	.0	47.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	10.0	.0	.0	.0	.0	.0	10.0
1-2	12.5	.0	.0	.0	.0	.0	12.5
3-4	.0	.0	2.5	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	22.5	.0	2.5	.0	.0	.0	25.0

PERIOD: (OVER-ALL) 1963-1977

MAY

AREA 0009 ISLE WALLIS 12.6S 176.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	7.5	.0	.0	.0	.0	.0	7.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.5	.0	.0	.0	.0	.0	7.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.5	.0	.0	.0	.0	2.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	.0	.0	.0	.0	2.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.5	.0	.0	.0	.0	7.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.5	.0	.0	.0	.0	7.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.0	.0	.0	.0	.0	.0	10.0	
1-2	20.0	30.0	10.0	.0	.0	.0	60.0	
3-4	.0	10.0	20.0	.0	.0	.0	30.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	30.0	40.0	30.0	.0	.0	.0	100.0	10

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	16.7	16.7	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
6-7	.0	.0	8.3	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
8-9	.0	.0	.0	.0	.0	16.7	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
TOTAL	0	2	3	4	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	12	5
PCT	.0	16.7	25.0	33.3	.0	16.7	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1933-1977
(OVER-ALL) 1898-1977

AREA 0009 ISLE WALLIS
12.8S 176.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	40.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	.0	60.0
NE	.0	33.3	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	66.7
E	4.7	4.0	2.0	.0	.0	.0	.0	10.7	.0	2.7	.0	.0	.0	.0	.0	86.6
SE	16.2	4.6	.8	.0	.0	.0	.0	21.5	9.2	.0	1.5	.0	.0	.0	.0	67.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.4	.0	.0	.0	.0	84.6
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	8.4	7.2	1.2	.0	.0	.0	.0	16.9	3.6	1.2	1.2	.0	.0	.0	.0	77.1
TOT OBS:	83															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	10.6	4.3	2.1	.0	.0	.0	.0	17.0	2.1	.0	.0	.0	.0	.0	.0	80.9
06&09	.0	9.1	.0	.0	.0	.0	.0	9.1	9.1	.0	.0	.0	.0	.0	.0	81.8
12&15	4.8	14.3	.0	.0	.0	.0	.0	19.0	4.8	4.8	4.8	.0	.0	.0	.0	66.7
18&21	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	.0	83.3
TOT PCT	8.2	7.1	1.2	.0	.0	.0	.0	16.5	3.5	1.2	1.2	.0	.0	.0	.0	77.6
TOT OBS:	85															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.2	.7	.0	.0	.0	.0		2.9	3.5	3.4	.0	.0	.0	4.6	.0	.0	.0
NE	.7	3.8	4.8	1.0	.0	.0		10.3	13.0	8.7	.0	12.5	100.0	8.3	.0	12.5	.0
E	2.9	12.3	19.5	4.8	.0	.0		39.4	12.9	43.3	.0	40.6	.0	33.3	.0	37.5	.0
SE	.0	4.8	25.0	7.7	.0	.0		37.5	16.9	34.6	.0	40.6	.0	41.7	.0	40.6	.0
S	.0	4.1	1.7	.0	.0	.0		5.8	9.7	5.8	.0	6.3	.0	4.6	.0	9.4	.0
SW	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	1.0	1.2	.0	.0	.0	.0		2.2	5.7	.5	.0	.0	.0	7.4	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	3.8	.0	.0	.0	.0	.0	.0	.0
TOT OBS	9	28	53	14	0	0	104		13.5	92	0	16	1	27	0	8	0
TOT PCT	8.7	26.9	51.0	13.5	.0	.0		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	.7	.0	.0	.0		2.9	3.5	3.4	.0	4.6	.0
NE	.7	6.0	3.6	.0	.0		10.3	13.0	8.7	17.6	8.3	12.5
E	9.1	18.0	12.3	.0	.0		39.4	12.9	43.3	38.2	33.3	37.5
SE	1.2	13.5	22.8	.0	.0		37.5	16.9	34.6	38.2	41.7	40.6
S	3.1	1.0	1.7	.0	.0		5.8	9.7	5.8	5.9	4.6	9.4
SW	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
NW	1.0	1.2	.0	.0	.0		2.2	5.7	.5	.0	7.4	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	3.8	.0	.0	.0
TOT OBS	20	42	42	0	0	104		13.5	92	17	27	8
TOT PCT	19.2	40.4	40.4	.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.8	3.8	28.8	51.9	11.5	.0	.0	13.6	100.0	52
06&09	.0	.0	41.2	41.2	17.6	.0	.0	13.9	100.0	17
12&15	.0	14.8	22.2	44.4	18.5	.0	.0	13.1	100.0	27
18&21	.0	12.5	.0	87.5	.0	.0	.0	14.1	100.0	8
TOT	2	7	28	53	14	0	0	13.5		104
PCT	1.9	6.7	26.9	51.0	13.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	3.5	2.8	.0		3.8
E	9.7	21.5	10.4	7.6		4.5
SE	1.4	13.9	22.9	1.4		5.1
S	.0	.0	.0	4.9		8.0
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	4	14	13	5	36	4.8
TOT PCT	11.1	38.9	36.1	13.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	3.5	
E	2.1	.0	.0	2.8	5.6	2.8	.0	.0	.0	.0	36.1	
SE	.7	2.8	.0	8.3	2.8	.7	.0	.0	.0	.0	24.3	
S	.0	.0	.0	2.8	.0	2.1	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	1	1	0	5	3	3	0	0	0	0	23	36
TOT PCT	2.8	2.8	.0	13.9	8.3	8.3	.0	.0	.0	.0	63.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	2.8	5.6	8.3	8.3	8.3	8.3	8.3	8.3
* OR >1000	11.1	13.9	16.7	16.7	16.7	16.7	16.7	16.7
* OR >600	25.0	27.8	30.6	30.6	30.6	30.6	30.6	30.6
* OR >300	25.0	27.8	30.6	30.6	30.6	30.6	30.6	30.6
* OR >150	27.8	30.6	33.3	33.3	33.3	33.3	33.3	33.3
* OR > 0	27.8	30.6	36.1	36.1	36.1	36.1	36.1	36.1
TOTAL	10	11	13	13	13	13	13	13

TOTAL NUMBER OF OBS: 36 PCT FREQ NH <5/8: 63.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.6	5.1	30.8	15.4	7.7	7.7	12.8	5.1	10.3	2.6	39

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	1.2	1.5	.9	.0	.0	.0	.0	.0	.0	3.6	
2<5	NO PCP	.0	.0	.0	1.5	.9	.0	.0	.0	.0	.0	2.4	
	TOT %	.0	1.2	1.5	2.4	.9	.0	.0	.0	.0	.0	6.0	
	PCP	.6	1.8	.9	.3	.0	.0	.0	.0	.0	.0	3.6	
5<10	NO PCP	.0	1.8	5.4	9.0	.6	.0	.0	.0	.0	.0	16.9	
	TOT %	.6	3.6	6.3	9.3	.6	.0	.0	.0	.0	.0	20.5	
	PCP	.0	.0	2.4	7.2	.0	.0	.0	.0	.0	.0	9.6	
10+	NO PCP	.9	4.2	34.6	20.2	2.4	.0	.0	.3	.0	1.2	63.9	
	TOT %	.9	4.2	37.0	27.4	2.4	.0	.0	.3	.0	1.2	73.5	
	TOT OBS												83
	TOT PCT	1.5	9.0	44.9	39.2	3.9	.0	.0	.3	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.9	.3	.0	.0	.0	.0	.0		1.2	
	11-21	.0	.0	.0	.3	.9	.0	.0	.0	.0		1.2	
	22+	.0	1.2	.6	1.8	.0	.0	.0	.0	.0		3.6	
	TOT %	.0	1.2	1.5	2.4	.9	.0	.0	.0	.0	.0	6.0	
	0-3	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
5<10	4-10	.0	1.2	3.0	1.2	.6	.0	.0	.0	.0		6.0	
	11-21	.0	1.8	2.4	7.8	.0	.0	.0	.0	.0		12.0	
	22+	.0	.0	.9	.3	.0	.0	.0	.0	.0		1.2	
	TOT %	.6	3.6	6.3	9.3	.6	.0	.0	.0	.0	.0	20.5	
	0-3	.0	.0	2.4	.0	.0	.0	.0	.0	.0	1.2	3.6	
10+	4-10	.9	2.4	10.2	3.0	1.2	.0	.0	.3	.0		18.1	
	11-21	.0	1.8	20.8	19.6	1.2	.0	.0	.0	.0		43.4	
	22+	.0	.0	3.6	4.8	.0	.0	.0	.0	.0		8.4	
	TOT %	.9	4.2	37.0	27.4	2.4	.0	.0	.3	.0	1.2	73.5	
	TOT OBS												83
	TOT PCT	1.5	9.0	44.9	39.2	3.9	.0	.0	.3	.0	1.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	9.1	.0	9.1	9.1	9.1	.0	.0	.0	.0	36.4	63.6	11
06&09	.0	.0	.0	10.0	10.0	.0	.0	.0	.0	.0	20.0	80.0	10
12&15	10.0	.0	.0	20.0	.0	10.0	.0	.0	.0	.0	40.0	60.0	10
18&21	.0	.0	.0	16.7	16.7	16.7	.0	.0	.0	.0	50.0	50.0	6
TOT	1	1	0	5	3	3	0	0	0	0	13	24	37
PCT	2.7	2.7	.0	13.5	8.1	8.1	.0	.0	.0	.0	35.1	64.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	6.4	93.6	47
06&09	.0	.0	.0	9.1	18.2	72.7	11
12&15	.0	.0	.0	14.3	52.4	33.3	21
18&21	.0	.0	.0	16.7	16.7	66.7	6
TOT	0	0	0	5	17	63	85
PCT	.0	.0	.0	5.9	20.0	74.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	9.1	18.2	18.2	63.6	11
06&09	.0	.0	20.0	10.0	70.0	10
12&15	11.1	11.1	33.3	11.1	55.6	9
18&21	.0	.0	33.3	16.7	50.0	6
TOT	1	2	9	5	22	36
PCT	2.8	5.6	25.0	13.9	61.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	1.2	1	1.2
85/89	.0	.0	.0	.0	2.4	6.0	1.2	18.1	23	27.7
80/84	.0	.0	.0	1.2	1.2	20.5	24.1	18.1	54	65.1
75/79	.0	.0	.0	.0	.0	.0	4.8	1.2	5	6.0
TOTAL	0	0	0	1	3	22	25	32	83	100.0
PCT	.0	.0	.0	1.2	3.6	26.5	30.1	38.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
.0	1.5	18.7	7.5	.0	.0	.0	.0	.0	.0
.9	5.1	22.9	31.0	4.8	.0	.0	.3	.0	.0
1.5	3.3	.0	1.2	.0	.0	.0	.0	.0	.0
2.4	9.9	41.6	39.8	4.8	.0	.0	.3	.0	1.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	90	90	85	80	80	80	84.7	55
06&09	86	85	85	82	78	78	78	81.8	17
12&15	84	83	83	81	79	75	75	81.0	27
18&21	82	81	81	81	80	80	80	81.1	8
TOT	91	90	88	82	80	75	75	83.0	107

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.5	5.0	15.0	12.5	65.0	89	40
06&09	.0	.0	.0	43.8	56.3	.0	81	16
12&15	.0	.0	5.0	25.0	40.0	30.0	85	20
18&21	.0	.0	.0	57.1	42.9	.0	80	7
TOT	0	1	3	22	25	32	86	83

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
4	.0	.0	.0	1.8	1	.0	1.8
3	.0	.0	.0	3.6	2	.0	3.6
2	.0	.0	1.8	7.3	5	.0	9.1
1	.0	.0	1.8	5.5	4	.0	7.3
0	.0	.0	7.3	.0	4	.0	7.3
-1	.0	1.8	25.5	.0	15	.0	27.3
-2	.0	5.5	12.7	.0	10	1.8	16.4
-3	.0	3.6	3.6	.0	4	.0	7.3
-4	.0	1.8	3.6	.0	3	.0	5.5
-5	1.8	.0	3.6	.0	3	.0	5.5
-6	.0	.0	5.5	.0	3	.0	5.5
-7/-8	.0	1.8	.0	.0	1	.0	1.8
TOTAL	1		36			1	54
		8		10	55		
PCT	1.8	14.5	65.5	18.2	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.8	.0	.0	.0	.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.3	3.3	.0	.0	.0	.0	6.7
1-2	.0	14.2	10.8	.0	.0	.0	25.0
3-4	.0	.0	5.8	.0	.0	.0	5.8
5-6	.0	.0	2.5	5.8	.0	.0	8.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	17.5	19.2	5.8	.0	.0	45.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.8	5.8	.0	.0	.0	11.7
3-4	.0	.0	1.8	2.3	.0	.0	4.2
5-6	.0	.0	10.0	4.2	.0	.0	14.2
7	.0	.0	10.8	.0	.0	.0	10.8
8-9	.0	.0	3.3	.0	.0	.0	3.3
10-11	.0	.0	.0	3.3	.0	.0	3.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	30.8	10.8	.0	.0	47.5

PERIOD: (OVER-ALL) 1963-1977

JUNE

AREA 0009 ISLE WALLIS
12.8S 176.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.3	.0	.0	.0	3.3
7	.0	.0	2.5	.0	.0	.0	2.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	5.8	.0	.0	.0	5.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	3.3	.0	.0	.0	.0	6.7	
1-2	.0	20.0	16.7	.0	.0	.0	36.7	
3-4	.0	.0	6.7	3.3	.0	.0	10.0	
5-6	.0	.0	16.7	10.0	.0	.0	26.7	
7	.0	.0	13.3	.0	.0	.0	13.3	
8-9	.0	.0	3.3	.0	.0	.0	3.3	
10-11	.0	.0	.0	3.3	.0	.0	3.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	23.3	56.7	16.7	.0	.0	100.0	30

PERIOD: (OVER-ALL) 1954-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	12.5	3.1	6.3	3.1	3.1	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
6-7	.0	.0	3.1	12.5	12.5	3.1	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
8-9	.0	3.1	.0	3.1	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
10-11	.0	.0	3.1	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
12-13	.0	.0	3.1	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
TOTAL	0	7	4	8	6	3	4	0	0	0	0	0	0	0	0	0	0	0	0	32	5
PCT	.0	21.9	12.5	25.0	18.8	9.4	12.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1928-1977
(OVER-ALL) 1899-1977

AREA 0009 ISLE WALLIS
12.7S 176.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	92.9
SE	.0	10.5	.0	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	.0	.0	89.5
S	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	.0	.0	.0	.0	.0	5.0	2.5	2.5	.0	.0	.0	.0	.0	90.0
TOT OBS:	40															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	4.5	.0	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	95.5
06609	14.3	.0	.0	.0	.0	.0	.0	14.3	14.3	14.3	.0	.0	.0	.0	.0	57.1
12615	.0	7.7	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0	.0	92.3
18621	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	4.8	.0	.0	.0	.0	.0	7.1	2.4	2.4	.0	.0	.0	.0	.0	88.1
TOT OBS:	42															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.0	1.8	.0	.0	.0		1.8	16.0	.0	.0	.0	.0	5.3	.0	.0	.0
NE	.0	1.8	1.8	.0	.0	.0		3.6	8.5	7.1	.0	.0	.0	.0	.0	.0	.0
E	.0	5.5	22.3	5.5	.0	.0		33.2	15.8	17.0	.0	59.4	.0	46.1	.0	.0	.0
SE	.0	10.9	35.9	3.6	.0	.0		50.5	14.5	68.8	.0	28.1	.0	32.9	.0	.0	.0
S	.0	1.8	1.8	.0	.0	.0		3.6	11.0	.0	.0	12.5	.0	5.3	.0	.0	.0
SW	.0	.0	3.6	.0	.0	.0		3.6	13.5	3.6	.0	.0	.0	5.3	.0	.0	.0
W	.0	1.4	.0	.0	.0	.0		1.4	9.0	2.7	.0	.0	.0	.0	.0	.0	.0
NW	.0	.5	.0	.0	.0	.0		.5	9.0	.9	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	.0	.0	.0	.0	5.3	.0	.0	.0
TOT OBS	1	12	37	5	0	0	55		14.2	28	0	8	0	19	0	0	0
TOT PCT	1.8	21.8	67.3	9.1	.0	.0		100.0		100.0	.0	100.0	.0	100.0	.0	.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.0	1.8	.0	.0	.0		1.8	16.0	.0	.0	5.3	.0
NE	1.8	1.8	.0	.0	.0		3.6	8.5	7.1	.0	.0	.0
E	.0	17.3	15.9	.0	.0		33.2	15.8	17.0	59.4	46.1	.0
SE	3.6	30.0	15.0	1.8	.0		50.5	14.5	68.8	28.1	32.9	.0
S	.0	3.6	.0	.0	.0		3.6	11.0	.0	12.5	5.3	.0
SW	.0	3.6	.0	.0	.0		3.6	13.5	3.6	.0	5.3	.0
W	.0	1.4	.0	.0	.0		1.4	9.0	2.7	.0	.0	.0
NW	.0	.5	.0	.0	.0		.5	9.0	.9	.0	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	.0	.0	5.3	.0
TOT OBS	4	33	17	1	0	55		14.2	28	8	19	0
TOT PCT	7.3	60.0	30.9	1.8	.0		100.0		100.0	100.0	100.0	.0

JULY

PERIOD: (PRIMARY) 1928-1977
(OVER-ALL) 1899-1977

AREA 0009 ISLE WALLIS
12.7S 176.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	.0	.0	21.4	71.4	7.1	.0	.0	14.3	100.0	28
06609	.0	.0	12.5	87.5	.0	.0	.0	14.8	100.0	8
12615	5.3	.0	26.3	52.6	15.8	.0	.0	14.0	100.0	19
18621	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT	1	0	12	37	5	0	0	14.2		55
PCT	1.8	.0	21.8	67.3	9.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.7	.0	.0	.0		2.0
NE	.0	.0	.0	.0		.0
E	16.7	13.3	15.0	13.3		4.5
SE	3.3	20.0	5.0	.0		3.6
S	.0	.0	6.7	.0		7.0
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	4	5	4	2	15	4.2
TOT PCT	26.7	33.3	26.7	13.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	53.3	
.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	26.7	
.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
0	0	0	0	0	2	0	0	0	0	13	15
.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	86.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
* OR >1000	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
* OR >600	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
* OR >300	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
* OR >150	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
* OR > 0	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
TOTAL	3	3	3	3	3	3	3	3

TOTAL NUMBER OF OBS: 16 PCT FREQ NH <5/8: 81.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.5	6.3	25.0	18.8	18.8	.0	6.3	6.3	6.3	.0	16

JULY

PERIOD: (PRIMARY) 1928-1977 AREA 0009 ISLE WALLIS
(OVERALL) 1899-1977 13.3S 176.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	5.0	
	NO PCP	.0	.0	5.0	7.5	2.5	2.5	.0	.0	.0	.0	17.5	
	TOT %	.0	.0	5.0	12.5	2.5	2.5	.0	.0	.0	.0	22.5	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	2.5	2.5	30.0	35.0	2.5	2.5	1.9	.6	.0	.0	77.5	
	TOT %	2.5	2.5	30.0	35.0	2.5	2.5	1.9	.6	.0	.0	77.5	
	TOT OBS												40
	TOT PCT	2.5	2.5	35.0	47.5	5.0	5.0	1.9	.6	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	2.5	2.5	.0	.0	.0	.0		5.0	
	11-21	.0	.0	5.0	10.0	.0	2.5	.0	.0	.0		17.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	5.0	12.5	2.5	2.5	.0	.0	.0	.0	22.5	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	5.6	6.9	.0	.0	1.9	.6	.0		15.0	
	11-21	2.5	2.5	19.4	23.1	2.5	2.5	.0	.0	.0		52.5	
	22+	.0	.0	5.0	5.0	.0	.0	.0	.0	.0		10.0	
	TOT %	2.5	2.5	30.0	35.0	2.5	2.5	1.9	.6	.0	.0	77.5	
	TOT OBS												40
	TOT PCT	2.5	2.5	35.0	47.5	5.0	5.0	1.9	.6	.0	.0	100.0	

JUL /

PERIOD: (PRIMARY) 1928-197?
(OVERALL) 1899-1977

AREA 0409 ISLE WALLIS
12.7S 176.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4
06609	.0	.0	.0	16.7	.0	33.3	.0	.0	.0	.0	50.0	50.0	6
12615	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6
18621	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT	0	0	0	1	0	2	0	0	0	0	3	13	16
PCT	.0	.0	.0	6.3	.0	12.5	.0	.0	.0	.0	18.8	81.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	.0	.0	.0	9.1	90.9	22
06609	.0	.0	.0	.0	28.6	71.4	7
12615	.0	.0	.0	.0	38.5	61.5	13
18621	.0	.0	.0	.0	.0	.0	0
TOT	0	0	0	0	9	33	42
PCT	.0	.0	.0	.0	21.4	78.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 1+	TOTAL OBS
00603	.0	.0	.0	.0	100.0	4
06609	.0	.0	16.7	33.3	50.0	6
12615	.0	.0	.0	.0	100.0	6
18621	.0	.0	.0	.0	.0	0
TOT	0	0	1	2	13	16
PCT	.0	.0	6.3	12.5	81.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.0	2.8	8.3	4	11.1
80/84	.0	.0	.0	.0	2.8	30.6	22.2	19.4	27	75.0
75/79	.0	.0	.0	.0	.0	2.8	8.3	2.8	5	13.9
TOTAL	0	0	0	0	1	12	12	11	36	100.0
PCT	.0	.0	.0	.0	2.8	33.3	33.3	30.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	2.1	6.3	.0	.0	2.1	.7	.0	.0
2.8	.0	34.0	32.6	2.8	2.8	.0	.0	.0	.0
.0	.0	1.4	12.5	.0	.0	.0	.0	.0	.0
2.8	.0	37.5	51.4	2.8	2.8	2.1	.7	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	87	86	86	83	80	79	79	82.9	28
06609	84	83	83	82	79	79	79	81.7	7
12615	82	81	81	81	78	78	78	80.4	20
18621									0
TOT	87	86	85	82	79	78	78	81.8	55

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	.0	27.8	16.7	55.6	89	18
06609	.0	.0	16.7	33.3	50.0	.0	77	6
12615	.0	.0	.0	38.5	53.8	7.7	82	13
18621								
TOT	0	0	1	12	13	11	85	37

PERIOD: (PRIMARY) 1928-1977
(OVER-ALL) 1899-1977

AREA 0009 ISLE WALLIS
12.7S 176.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	TOT	W FOG	WO FOG
5	.0	3.8	1	.0	3.8
3	.0	3.8	1	.0	3.8
1	.0	7.7	2	.0	7.7
0	.0	19.2	5	.0	19.2
-1	3.8	19.2	6	.0	23.1
-2	3.8	.0	1	.0	3.8
-3	19.2	3.8	6	.0	23.1
-4	3.8	3.8	2	.0	7.7
-5	.0	3.8	1	.0	3.8
-7/-8	.0	3.8	1	.0	3.8
TOTAL	8			0	26
		18	26		
PCT	30.8	69.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	10.0	.0	.0	.0	10.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	10.0	.0	.0	.0	10.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	10.0	.0	.0	.0	.0	10.0
3-4	.0	7.5	20.0	10.0	.0	.0	37.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	10.0	.0	.0	.0	10.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.5	30.0	10.0	.0	.0	57.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.5	.0	.0	.0	.0	2.5
5-6	.0	.0	10.0	.0	.0	.0	10.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	10.0	.0	.0	10.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	10.0	10.0	.0	.0	22.5

PERIOD: (OVER-ALL) 1968-1977

JULY

AREA 0009 ISLE WALLIS
12.7S 176.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	10.0	.0	.0	.0	10.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	10.0	.0	.0	.0	10.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	10.0	.0	.0	.0	.0	10.0	
3-4	.0	10.0	40.0	10.0	.0	.0	60.0	
5-6	.0	.0	10.0	.0	.0	.0	10.0	
7	.0	.0	10.0	.0	.0	.0	10.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	10.0	.0	.0	10.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	20.0	60.0	20.0	.0	.0	100.0	10

PERIOD: (OVER-ALL) 1960-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	.0	18.2	9.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
6-7	.0	.0	.0	18.2	9.1	9.1	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	15
10-11	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	.0	1	20
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	0	2	2	1	2	0	0	2	0	1	0	0	0	0	0	0	0	0	11	8
PCT	.0	.0	18.2	27.3	9.1	18.2	.0	.0	18.2	.0	9.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1927-1977
(OVER-ALL) 1870-1977

AREA 0009 ISLE WALLIS
12.8S 176.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	30.8	.0	.0	.0	.0	.0	.0	30.8	.0	.0	.0	.0	.0	.0	.0	69.2
E	1.7	17.6	.0	.0	.0	.0	.0	19.3	3.4	.0	3.4	.0	.0	.0	.0	73.9
SE	6.3	8.6	2.3	.0	.0	.0	.0	17.2	2.3	.0	.0	.0	.0	.0	.0	80.5
S	31.8	.0	.0	.0	.0	.0	.0	31.8	.0	.0	.0	.0	.0	.0	.0	68.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.2	10.8	1.2	.0	.0	.0	.0	19.3	2.4	.0	1.2	.0	.0	.0	.0	77.1
TOT OBS:	83															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	8.3	4.2	2.1	.0	.0	.0	.0	14.6	2.1	.0	2.1	.0	.0	.0	.0	81.3
06&09	20.0	10.0	.0	.0	.0	.0	.0	30.0	.0	.0	.0	.0	.0	.0	.0	70.0
12&15	.0	22.2	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	.0	.0	77.8
18&21	.0	25.0	.0	.0	.0	.0	.0	25.0	12.5	.0	.0	.0	.0	.0	.0	62.5
TOT PCT	7.1	10.7	1.2	.0	.0	.0	.0	19.0	2.4	.0	1.2	.0	.0	.0	.0	77.4
TOT OBS:	84															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	1.2	2.1	.0	.0	.0		3.3	11.2	1.6	.0	13.9	.0	1.0	.0	10.0	.0
E	.7	17.5	20.3	.9	.0	.0		39.4	11.8	33.9	.0	30.6	.0	56.0	.0	40.0	.0
SE	.2	17.2	25.2	5.7	.0	.0		48.3	13.4	54.0	.0	33.3	.0	39.0	.0	50.0	.0
S	.0	.9	4.2	.9	.0	.0		6.1	15.9	7.3	.0	11.1	.0	4.0	.0	.0	.0
SW	.0	.0	.9	.0	.0	.0		.9	13.0	1.6	.0	.0	.0	.0	.0	.0	.0
W	.9	.0	.9	.0	.0	.0		1.9	11.0	1.6	.0	11.1	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0							.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	2	39	57	8	0	0	106		12.8	62	0	9	0	25	0	10	0
TOT PCT	1.9	36.8	53.8	7.5	.0	.0		100.0		100.0	.0	100.0	.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
NE	.2	3.1	.0	.0	.0		3.3	11.2	1.6	13.9	1.0	10.0
E	4.2	29.2	5.9	.0	.0		39.4	11.8	33.9	30.6	56.0	40.0
SE	7.8	28.3	11.3	.9	.0		48.3	13.4	54.0	33.3	39.0	50.0
S	.0	4.5	.7	.9	.0		6.1	15.9	7.3	11.1	4.0	.0
SW	.0	.9	.0	.0	.0		.9	13.0	1.6	.0	.0	.0
W	.9	.0	.9	.0	.0		1.9	11.0	1.6	11.1	.0	.0
NW	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.0						.0	.0	.0	.0	.0	.0
TOT OBS	14	70	20	2	0	106		12.8	62	9	25	10
TOT PCT	13.2	66.0	18.9	1.9	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1927-1977
(OVER-ALL) 1870-1977

AREA 0009 ISLE WALLIS
12.8S 176.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	3.2	35.5	51.6	9.7	.0	.0	12.5	100.0	62
06&09	.0	.0	33.3	66.7	.0	.0	.0	13.7	100.0	9
12&15	.0	.0	40.0	56.0	4.0	.0	.0	13.0	100.0	25
18&21	.0	.0	40.0	50.0	10.0	.0	.0	13.0	100.0	10
TOT	0	2	39	57	8	0	0	12.8		106
PCT	.0	1.9	36.8	53.8	7.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.9	3.7	3.7	.0		4.2
E	12.0	11.1	24.1	.0		4.2
SE	1.9	11.1	9.3	11.1		5.5
S	.0	3.7	3.7	.0		4.5
SW	.0	.0	.0	.0		.0
W	.0	.0	3.7	.0		6.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	4	8	12	3	27	4.7
TOT PCT	14.8	29.6	44.4	11.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	4.6	
E	.0	.0	.0	7.4	2.8	2.8	.0	.0	.0	.0	34.3	
SE	.0	.0	7.4	3.7	4.6	.9	.0	.0	.0	.0	18.7	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	1	2	3	3	1	0	0	0	0	17	27
TOT PCT	.0	3.7	7.4	11.1	11.1	3.7	.0	.0	.0	.0	63.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/4	* OR >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0
* OR >2000	3.6	3.6	3.6	3.6	3.6	3.6	3.6
* OR >1000	7.1	14.3	14.3	14.3	14.3	14.3	14.3
* OR >600	14.3	25.0	25.0	25.0	25.0	25.0	25.0
* OR >300	21.4	32.1	32.1	32.1	32.1	32.1	32.1
* OR >150	25.0	35.7	35.7	35.7	35.7	35.7	35.7
* OR > 0	25.0	35.7	35.7	35.7	35.7	35.7	35.7
TOTAL	7	10	10	10	10	10	10

TOTAL NUMBER OF OBSV 28 PCT FREQ NH <5/8: 64.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	11.8	20.6	20.6	14.7	8.8	8.8	8.8	5.9	.0	34

AUGUST

PERIOD: (PRIMARY) 1927-1977
(OVER-ALL) 1870-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	1.2	.6	.6	.0	.0	.0	.0	.0	.0	2.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.2	.6	.6	.0	.0	.0	.0	.0	.0	2.4	
5<10	PCP	.0	.0	3.9	4.5	.0	.0	.0	.0	.0	.0	8.4	
	NO PCP	.0	1.2	5.4	5.4	1.2	.0	.0	.0	.0	.0	13.3	
	TOT %	.0	1.2	9.3	9.9	1.2	.0	.0	.0	.0	.0	21.7	
10+	PCP	.0	.0	2.4	3.9	2.1	.0	.0	.0	.0	.0	8.4	
	NO PCP	.0	1.5	23.5	38.0	3.3	.0	1.2	.0	.0	.0	67.5	
	TOT %	.0	1.5	25.9	41.9	5.4	.0	1.2	.0	.0	.0	75.9	
	TOT OBS												83
	TOT PCT	.0	3.9	35.8	52.4	6.6	.0	1.2	.0	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	1.2	.6	.6	.0	.0	.0	.0	.0		2.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	1.2	.6	.6	.0	.0	.0	.0	.0	.0	2.4	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	2.4	2.4	.0	.0	.0	.0	.0		4.8	
	11-21	.0	1.2	5.7	5.1	1.2	.0	.0	.0	.0		13.1	
	22+	.0	.0	1.2	2.4	.0	.0	.0	.0	.0		3.6	
	TOT %	.0	1.2	9.2	9.8	1.2	.0	.0	.0	.0	.0	21.4	
10+	0-3	.0	.0	.9	.3	.0	.0	.0	.0	.0	.0	1.2	
	4-10	.0	1.2	14.6	16.4	1.2	.0	.0	.0	.0		33.3	
	11-21	.0	.3	11.0	20.2	3.0	.0	1.2	.0	.0		35.7	
	22+	.0	.0	.0	4.8	1.2	.0	.0	.0	.0		6.0	
	TOT %	.0	1.5	26.5	41.7	5.4	.0	1.2	.0	.0	.0	76.2	
	TOT OBS												84
	TOT PCT	.0	3.9	36.3	52.1	6.5	.0	1.2	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1927-1977
(OVER-ALL) 1870-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	25.0	12.5	.0	.0	.0	.0	.0	37.5	62.5	8
06&09	.0	12.5	.0	12.5	.0	.0	.0	.0	.0	.0	25.0	75.0	8
12&15	.0	.0	11.1	.0	.0	11.1	.0	.0	.0	.0	22.2	77.8	9
18&21	.0	.0	12.5	.0	25.0	.0	.0	.0	.0	.0	37.5	62.5	8
TOT	0	1	2	3	3	1	0	0	0	0	10	23	33
PCT	.0	3.0	6.1	9.1	9.1	3.0	.0	.0	.0	.0	30.3	69.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	2.0	12.2	85.7	49
06&09	.0	.0	.0	10.0	20.0	70.0	10
12&15	.0	.0	.0	.0	44.4	55.6	18
18&21	.0	.0	.0	.0	25.0	75.0	8
TOT	0	0	0	2	18	65	85
PCT	.0	.0	.0	2.4	21.2	76.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50yD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	25.0	12.5	62.5	8
06&09	.0	14.3	28.6	.0	71.4	7
12&15	.0	14.3	14.3	14.3	71.4	7
18&21	.0	16.7	16.7	33.3	50.0	6
TOT	0	3	6	4	18	28
PCT	.0	10.7	21.4	14.3	64.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.4	.0	2.9	1.4	4	5.7
85/89	.0	.0	.0	.0	1.4	4.3	15.7	2.9	17	24.3
80/84	.0	.0	.0	.0	.0	14.3	22.9	12.9	35	50.0
75/79	.0	.0	.0	.0	.0	2.9	5.7	11.4	14	20.0
TOTAL	0	0	0	0	2	15	33	20	70	100.0
PCT	.0	.0	.0	.0	2.9	21.4	47.1	28.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	1.4	4.3	.0	.0	.0	.0	.0	.0
	.0	1.4	3.9	18.9	.0	.0	.0	.0	.0	.0
	.0	2.1	28.6	17.1	2.1	.0	.0	.0	.0	.0
	.0	1.4	3.6	12.1	1.4	.0	1.4	.0	.0	.0
	.0	5.0	37.5	52.5	3.6	.0	1.4	.0	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	97	96	91	83	77	72	72	83.6	60
06&09	82	81	81	80	77	77	77	79.9	11
12&15	82	81	81	80	75	75	75	79.6	24
18&21	82	81	81	80	78	78	78	79.8	8
TOT	97	96	90	81	77	72	72	82.0	103

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	4.7	18.6	51.2	25.6	84	43
06&09	.0	.0	.0	22.2	44.4	33.3	87	9
12&15	.0	.0	.0	14.3	57.1	28.6	86	14
18&21	.0	.0	.0	50.0	16.7	33.3	82	6
TOT	0	0	2	15	35	20	85	72

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PERIOD: (PRIMARY) 1927-1977
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
2	.0	.0	2.2	.0	1	.0	2.2
1	.0	.0	2.2	2.2	2	.0	4.4
0	.0	4.4	8.9	.0	6	.0	13.3
-1	.0	13.3	8.9	.0	10	.0	22.2
-2	.0	6.7	11.1	.0	8	2.2	15.6
-3	.0	8.9	6.7	.0	7	.0	15.6
-4	.0	6.7	.0	.0	3	.0	6.7
-5	2.2	8.9	2.2	.0	6	.0	13.3
-6	.0	2.2	.0	.0	1	.0	2.2
-11/-13	2.2	.0	.0	.0	1	.0	2.2
TOTAL	2		19			1	44
		23		1	45		
PCT	4.4	51.1	42.2	2.2	100.0	2.2	97.8

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.6	5.6	.0	.0	.0	11.1
3-4	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.6	6.9	.0	.0	.0	12.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	11.1	19.4	.0	.0	.0	30.6
5-6	.0	.0	11.1	.0	.0	.0	11.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.1	30.6	.0	.0	.0	41.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.6	5.6	.0	.0	.0	11.1
3-4	.0	.0	18.1	.0	.0	.0	18.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	5.6	.0	.0	.0	5.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	5.6	.0	.0	.0	5.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.6	34.7	.0	.0	.0	40.3

PERIOD: (OVER-ALL) 1963-1977

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

SW

1-3	4-10	11-21	22-33	34-47	48+	PCT
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	5.6	.0	.0	.0	5.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	5.6	.0	.0	.0	5.6

NW

1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	11.1	16.7	.0	.0	.0	27.8	
3-4	.0	11.1	38.9	.0	.0	.0	50.0	
5-6	.0	.0	11.1	.0	.0	.0	11.1	
7	.0	.0	5.6	.0	.0	.0	5.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	5.6	.0	.0	.0	5.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	22.2	77.8	.0	.0	.0	100.0	18

PERIOD: (OVER-ALL) 1956-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.8	.0	4.8	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
6-7	.0	.0	4.8	.0	23.8	4.8	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
8-9	.0	.0	4.8	4.8	.0	19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
10-11	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
12-13	.0	.0	4.8	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
TOTAL	1	0	4	2	6	6	2	0	0	0	0	0	0	0	0	0	0	0	0	21	6
PCT	4.8	.0	19.0	9.5	28.6	28.6	9.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1924-1977
(OVER-ALL) 1870-1977

AREA 0009 ISLE WALLIS
12.8S 176.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	17.4	.0	.0	.0	.0	.0	.0	17.4	.0	.0	.0	.0	.0	.0	.0	82.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	19.0	.0	.0	.0	.0	.0	.0	19.0	12.1	.0	.0	.0	.0	.0	.0	69.0
SE	.8	.0	.0	.0	.0	.0	.0	.8	4.6	.0	.0	.0	.0	.0	.0	95.2
S	.0	40.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	.0	60.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	6.6	1.6	.0	.0	.0	.0	.0	8.2	6.6	.0	.0	.0	.0	.0	.0	85.2
TOT OBS:	61															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.3	.0	.0	.0	.0	.0	.0	6.3	3.1	.0	.0	.0	.0	.0	.0	90.6
06&09	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
12&15	11.1	5.6	.0	.0	.0	.0	.0	16.7	5.6	.0	.0	.0	.0	.0	.0	77.8
18&21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	6.5	1.6	.0	.0	.0	.0	.0	8.1	6.5	.0	.0	.0	.0	.0	.0	85.5
TOT OBS:	62															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	1.2	4.9	.0	.0	.0		7.1	9.9	9.6	.0	7.7	.0	4.3	.0	.0	.0
NE	1.2	2.5	1.5	.0	.0	.0		5.2	7.8	5.1	.0	1.9	.0	8.7	.0	.0	.0
E	.0	8.6	19.4	.9	.0	.0		29.0	13.1	21.2	.0	44.2	.0	33.7	.0	29.2	.0
SE	1.2	16.4	27.5	4.6	.0	.0		49.7	14.0	55.8	.0	38.5	.0	44.6	.0	54.2	.0
S	.0	2.2	.9	1.9	.0	.0		4.9	15.3	5.1	.0	.0	.0	4.3	.0	16.7	.0
SW	.0	1.2	.0	.0	.0	.0		1.2	10.0	.0	.0	.0	.0	4.3	.0	.0	.0
W	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.3	.0	.0	.0	.0	.0		.3	3.0	.6	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	2.6	.0	7.7	.0	.0	.0	.0	.0
TOT OBS	5	26	44	6	0	0	81		12.8	39	0	13	0	23	0	6	0
TOT PCT	6.2	32.1	54.3	7.4	.0	.0		100.0		100.0	.0	100.0	.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	6.2	.0	.0	.0		7.1	9.9	9.6	7.7	4.3	.0
NE	3.7	.3	1.2	.0	.0		5.2	7.8	5.1	1.9	8.7	.0
E	1.9	21.3	5.9	.0	.0		29.0	13.1	21.2	44.2	33.7	29.2
SE	6.8	21.0	21.9	.0	.0		49.7	14.0	55.8	38.5	44.6	54.2
S	.0	3.1	1.9	.0	.0		4.9	15.3	5.1	.0	4.3	16.7
SW	.0	1.2	.0	.0	.0		1.2	10.0	.0	.0	4.3	.0
W	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
NW	.3	.0	.0	.0	.0		.3	3.0	.6	.0	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.6	7.7	.0	.0
TOT OBS	13	43	25	0	0	81		12.8	39	13	23	6
TOT PCT	16.0	53.1	30.9	.0	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1924-1977
(OVER-ALL) 1870-1977

AREA 0009 ISLE WALLIS
13.3S 176.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.6	7.7	25.6	53.8	10.3	.0	.0	13.0	100.0	39
06&09	7.7	.0	38.5	46.2	7.7	.0	.0	11.3	100.0	13
12&15	.0	.0	39.1	56.5	4.3	.0	.0	13.1	100.0	23
18&21	.0	.0	33.3	66.7	.0	.0	.0	13.0	100.0	6
TOT	2	3	26	44	6	0	0	12.8		81
PCT	2.5	3.7	32.1	54.3	7.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.1	.0	4.2	.0		4.8
NE	.0	8.3	.0	.0		3.0
E	18.8	.0	7.3	4.2		3.2
SE	10.4	5.2	17.7	4.2		4.4
S	.0	3.1	.0	.0		3.0
SW	.0	.0	.0	4.2		8.0
W	.0	.0	.0	.0		.0
NW	1.0	.0	.0	.0		2.0
VAR	.0	.0	.0	.0		.0
CALM	4.2	4.2	.0	.0		2.0
TOT OBS	9	5	7	3	24	3.8
TOT PCT	37.5	20.8	29.2	12.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	3.1	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	
E	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	18.8	
SE	.0	.0	.0	.0	9.4	4.2	.0	.0	.0	.0	24.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	
SW	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	
TOT OBS	0	0	1	0	5	1	1	0	0	0	16	24
TOT PCT	.0	.0	4.2	.0	20.8	4.2	4.2	.0	.0	.0	66.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2
* OR >2000	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
* OR >1000	16.7	29.2	29.2	29.2	29.2	29.2	29.2	29.2
* OR >600	16.7	29.2	29.2	29.2	29.2	29.2	29.2	29.2
* OR >300	16.7	33.3	33.3	33.3	33.3	33.3	33.3	33.3
* OR >150	16.7	33.3	33.3	33.3	33.3	33.3	33.3	33.3
* OR > 0	16.7	33.3	33.3	33.3	33.3	33.3	33.3	33.3
TOTAL	4	8	8	8	8	8	8	8

TOTAL NUMBER OF OBS: 24 PCT FREQ NH <5/8: 66.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.4	22.2	14.8	14.8	3.7	11.1	7.4	7.4	11.1 .0	27

SEPTEMBER

PERIOD: (PRIMARY) 1924-1977
(OVER-ALL) 1870-1977

AREA 0009 ISLE WALLIS
12.8S 176.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
5<10	PCP	.0	.0	3.3	.0	1.7	.0	.0	.0	.0	.0	5.0	
	NO PCP	1.7	1.7	5.4	14.6	.0	1.7	.0	.0	.0	.0	25.0	
	TOT %	1.7	1.7	8.8	14.6	1.7	1.7	.0	.0	.0	.0	30.0	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	6.3	5.0	14.2	36.7	2.5	.0	.0	.4	.0	3.3	68.3	
	TOT %	6.3	5.0	14.2	36.7	2.5	.0	.0	.4	.0	3.3	68.3	
	TOT OBS												60
	TOT PCT	9.6	6.7	22.9	51.3	4.2	1.7	.0	.4	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.7	.0	.0	.0	.0	.0	.0	.0	.0		1.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	1.7	8.8	.0	1.7	.0	.0	.0		11.7	
	11-21	1.7	1.7	7.1	4.6	.0	.0	.0	.0	.0		15.0	
	22+	.0	.0	.0	1.7	1.7	.0	.0	.0	.0		3.3	
	TOT %	1.7	1.7	8.8	14.6	1.7	1.7	.0	.0	.0	.0	30.0	
10+	0-3	1.3	1.7	.0	1.7	.0	.0	.0	.4	.0	3.3	8.3	
	4-10	.0	3.3	5.8	7.9	1.3	.0	.0	.0	.0		18.3	
	11-21	5.0	.0	7.1	23.3	1.3	.0	.0	.0	.0		36.7	
	22+	.0	.0	1.3	3.8	.0	.0	.0	.0	.0		5.0	
	TOT %	6.3	5.0	14.2	36.7	2.5	.0	.0	.4	.0	3.3	68.3	
	TOT OBS												60
	TOT PCT	9.6	6.7	22.9	51.3	4.2	1.7	.0	.4	.0	3.3	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1924-1977
(OVER-ALL) 1870-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	.0	12.5	12.5	.0	.0	.0	.0	25.0	75.0	8
06&09	.0	.0	.0	.0	33.3	.0	11.1	.0	.0	.0	44.4	55.6	9
12&15	.0	.0	16.7	.0	.0	.0	.0	.0	.0	.0	16.7	83.3	6
18&21	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	50.0	50.0	2
TOT	0	0	1	0	5	1	1	0	0	0	8	17	25
PCT	.0	.0	4.0	.0	20.0	4.0	4.0	.0	.0	.0	32.0	68.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	16.1	83.9	31
06&09	.0	.0	.0	.0	20.0	80.0	10
12&15	.0	.0	.0	5.6	55.6	38.9	18
18&21	.0	.0	.0	.0	50.0	50.0	2
TOT	0	0	0	1	18	42	61
PCT	.0	.0	.0	1.6	29.5	68.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	.0	25.0	75.0	8
06&09	.0	.0	.0	44.4	55.6	9
12&15	.0	20.0	20.0	.0	80.0	5
18&21	.0	.0	.0	50.0	50.0	2
TOT	0	1	1	7	16	24
PCT	.0	4.2	4.2	29.2	66.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	1.6	.0	1.6	.0	.0	2	3.2
85/89	.0	.0	.0	.0	8.1	12.9	.0	.0	13	21.0
80/84	.0	.0	.0	.0	3.2	21.0	22.6	1.6	30	48.4
75/79	.0	.0	.0	.0	3.2	4.8	8.1	11.3	17	27.4
TOTAL	0	0	0	1	9	25	19	8	62	100.0
PCT	.0	.0	.0	1.6	14.5	40.3	30.6	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.6	.0	.0	.4	1.2	.0	.0	.0	.0	.0
3.2	1.6	2.8	13.3	.0	.0	.0	.0	.0	.0
2.8	3.2	16.1	21.4	1.2	1.6	.0	.4	.0	1.6
1.6	2.0	9.7	10.9	1.6	.0	.0	.0	.0	1.6
9.3	6.9	28.6	46.0	4.0	1.6	.0	.4	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	90	89	83	79	78	78	83.9	39
06&09	81	80	80	80	77	77	77	79.8	14
12&15	83	82	81	79	77	75	75	79.4	22
18&21	81	80	80	79	78	78	78	79.5	6
TOT	91	90	88	81	77	75	75	81.6	81

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.3	20.0	43.3	33.3	.0	75	30
06&09	.0	.0	14.3	50.0	14.3	21.4	81	14
12&15	.0	.0	.0	23.1	46.2	30.8	85	13
18&21	.0	.0	16.7	33.3	33.3	16.7	82	6
TOT	0	1	9	25	20	8	79	63

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PERIOD: (PRIMARY) 1924-1977
(OVER-ALL) 1870-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	2.2	1	.0	2.2
6	.0	.0	.0	2.2	.0	1	.0	2.2
5	.0	.0	.0	2.2	.0	1	.0	2.2
3	.0	.0	2.2	.0	.0	1	.0	2.2
2	.0	.0	4.3	.0	.0	2	.0	4.3
1	.0	.0	2.2	.0	.0	1	.0	2.2
0	.0	6.5	4.3	.0	.0	5	.0	10.9
-1	.0	15.2	8.7	.0	.0	11	.0	23.9
-2	.0	4.3	8.7	.0	.0	6	.0	13.0
-3	.0	10.9	6.5	.0	.0	8	.0	17.4
-4	.0	4.3	.0	.0	.0	2	.0	4.3
-5	2.2	.0	2.2	.0	.0	2	.0	4.3
-6	.0	6.5	.0	.0	.0	3	.0	6.5
-7/-8	.0	4.3	.0	.0	.0	2	.0	4.3
TOTAL	1	24	18	2	1	46	0	46
PCT	2.2	52.2	39.1	4.3	2.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.3	.0	.0	.0	.0	.0	3.3
1-2	.0	4.3	4.3	.0	.0	.0	8.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	4.3	4.3	.0	.0	.0	12.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.3	.0	.0	.0	.0	4.3
3-4	.0	4.3	.0	.0	.0	.0	4.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.7	.0	.0	.0	.0	8.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.3	.0	.0	.0	.0	4.3
3-4	.0	4.3	7.6	.0	.0	.0	12.0
5-6	.0	.0	4.3	3.3	.0	.0	7.6
7	.0	.0	3.3	.0	.0	.0	3.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.7	15.2	3.3	.0	.0	27.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.4	4.3	.0	.0	.0	9.8
3-4	.0	.0	5.4	.0	.0	.0	5.4
5-6	.0	.0	4.3	1.1	.0	.0	5.4
7	.0	.0	9.8	.0	.0	.0	9.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	4.3	.0	.0	4.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	23.9	5.4	.0	.0	34.8

PERIOD: (OVER-ALL) 1963-1977

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	4.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	.0	.0	.0	.0	3.3	.0	4.3	.0	.0	.0	.0	4.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	91.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.0	.0	.0	.0	.0	.0	13.0	
1-2	.0	21.7	8.7	.0	.0	.0	30.4	
3-4	.0	13.0	13.0	.0	.0	.0	26.1	
5-6	.0	.0	8.7	4.3	.0	.0	13.0	
7	.0	.0	13.0	.0	.0	.0	13.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	4.3	.0	.0	4.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.0	34.8	43.5	8.7	.0	.0	100.0	23

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	12.5	8.3	8.3	4.2	.0	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
6-7	.0	.0	4.2	8.3	20.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
8-9	.0	.0	.0	4.2	.0	.0	4.2	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.2	.0	.0	4.2	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
TOTAL	1	3	3	6	7	0	3	1	0	0	0	0	0	0	0	0	0	0	0	24	6
PCT	4.2	12.5	12.5	25.0	29.2	.0	12.5	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1884-1977

AREA 0009 ISLE WALLIS
12.8S 176.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	54.5	.0	.0	.0	.0	.0	.0	54.5	.0	.0	.0	.0	.0	.0	.0	45.5
NE	28.0	16.0	4.0	.0	.0	.0	.0	48.0	.0	8.0	.0	.0	.0	.0	.0	52.0
E	4.4	8.8	2.7	.0	.0	.0	.0	15.9	2.7	1.8	3.5	.0	.0	.0	.0	77.9
SE	1.3	2.6	.0	.0	.0	.0	.0	3.9	1.3	.0	5.3	.0	.0	.0	.0	89.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	.0	50.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	50.0
TOT PCT	7.9	6.3	1.6	.0	.0	.0	.0	15.9	1.6	1.6	3.2	.0	1.6	.0	.0	77.8
TOT OBS:	63															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	10.7	3.6	.0	.0	.0	.0	.0	14.3	3.6	.0	3.6	.0	.0	.0	.0	78.6
06&09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
12&15	4.0	12.0	4.0	.0	.0	.0	.0	20.0	.0	4.0	4.0	.0	4.0	.0	.0	72.0
18&21	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	85.7
TOT PCT	7.7	6.2	1.5	.0	.0	.0	.0	15.4	1.5	1.5	3.1	.0	1.5	.0	.0	78.5
TOT OBS:	65															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	3.7	.9	.0	.0	.0		5.5	9.5	11.4	.0	.0	.0	.0	.0	8.3	.0
NE	1.2	9.1	1.5	.0	.0	.0		11.9	7.8	11.4	.0	20.0	25.0	8.6	.0	13.9	.0
E	8.8	14.6	15.2	3.0	.0	.0		41.8	10.0	35.6	.0	25.0	75.0	56.9	.0	30.6	.0
SE	2.1	6.7	16.2	3.0	1.2	.0		29.3	14.4	25.0	.0	55.0	.0	20.7	.0	47.2	.0
S	.0	.0	6.1	.0	.0	.0		6.1	13.8	9.1	.0	.0	.0	6.9	.0	.0	.0
SW	1.2	.0	.0	.0	.0	.0		1.2	1.0	3.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	1.2	.0	.0	.0		1.2	11.0	3.0	.0	.0	.0	.0	.0	.0	.0
NW	.3	.0	.3	.0	.0	.0		.6	11.0	1.5	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	.0	.0	.0	.0	6.9	.0	.0	.0
TOT OBS	14	28	34	5	1	0	82		10.9	33	0	10	1	29	0	9	0
TOT PCT	17.1	34.1	41.5	6.1	1.2	.0		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	3.7	.9	.0	.0		5.5	9.5	11.4	.0	.0	8.3
NE	5.8	4.9	1.2	.0	.0		11.9	7.8	11.4	20.5	8.6	13.9
E	14.9	21.0	3.7	2.1	.0		41.8	10.0	35.6	29.5	56.9	30.6
SE	4.9	13.7	9.1	1.5	.0		29.3	14.4	25.0	50.0	20.7	47.2
S	.0	5.5	.6	.0	.0		6.1	13.8	9.1	.0	6.9	.0
SW	1.2	.0	.0	.0	.0		1.2	1.0	3.0	.0	.0	.0
W	.0	1.2	.0	.0	.0		1.2	11.0	3.0	.0	.0	.0
NW	.3	.0	.3	.0	.0		.6	11.0	1.5	.0	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	.0	.0	6.9	.0
TOT OBS	29	41	13	3	0	82		10.9	33	11	29	9
TOT PCT	30.5	50.0	15.9	3.7	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1884-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	18.2	30.3	42.4	9.1	.0	.0	11.8	100.0	33
06&09	.0	9.1	27.3	63.6	.0	.0	.0	11.3	100.0	11
12&15	6.9	17.2	44.8	31.0	.0	.0	.0	7.6	100.0	29
18&21	.0	.0	22.2	44.4	22.2	11.1	.0	17.5	100.0	9
TOT	2	12	28	34	5	1	0	10.9		82
PCT	2.4	14.6	34.1	41.5	6.1	1.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	2.1	2.1		7.5
NE	2.9	.0	6.4	1.4		5.5
E	7.9	13.6	22.9	5.0		5.0
SE	6.4	3.6	20.0	.0		4.4
S	.0	.0	2.1	.0		7.0
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.7	.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	2.9	.0	.0	.0		1.0
TOT OBS	7	6	19	3	35	4.9
TOT PCT	20.0	17.1	54.3	8.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	2.1	2.1	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	9.3	
E	.0	.0	2.1	5.7	5.0	.0	.0	.0	.0	.0	38.4	
SE	.0	.0	.0	.0	4.5	2.9	.0	.0	.0	.0	22.9	
S	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	
TOT OBS	0	0	1	3	5	1	0	0	0	0	25	35
TOT PCT	.0	.0	2.9	8.6	14.3	2.9	.0	.0	.0	.0	71.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >1000	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
* OR >600	21.6	24.3	24.3	24.3	24.3	24.3	24.3	24.3
* OR >300	24.3	27.0	27.0	27.0	27.0	27.0	27.0	27.0
* OR >150	24.3	27.0	27.0	27.0	27.0	27.0	27.0	27.0
* OR > 0	24.3	27.0	27.0	27.0	27.0	27.0	27.0	27.0
TOTAL	9	10	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 37 PCT FREQ NH <5/8: 71.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.6	12.8	15.4	30.8	10.3	2.6	7.7	10.3	7.7	.0	39

OCTOBER

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1884-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	1.2	.4	.0	.0	.0	.0	.0	.0	1.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	1.2	.4	.0	.0	.0	.0	.0	.0	1.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	1.2	2.4	4.8	.8	.0	.0	.0	.4	.0	.0	9.5	
	NO PCP	.8	2.0	9.9	5.6	2.4	.0	.0	.0	.0	1.6	22.2	
	TOT %	2.0	4.4	14.7	6.3	2.4	.0	.0	.4	.0	1.6	31.7	
10+	PCP	1.2	2.4	1.2	.0	.0	.0	.0	.0	.0	.0	4.8	
	NO PCP	1.2	3.2	27.8	23.4	1.2	1.6	1.6	.4	.0	1.6	61.9	
	TOT %	2.4	5.6	29.0	24.4	1.2	1.6	1.6	.4	.0	1.6	66.7	
	TOT OBS												63
	TOT PCT	4.4	9.9	44.8	30.2	3.6	1.6	1.6	.8	.0	3.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	1.2	.4	.0	.0	.0	.0	.0		1.6	
	TOT %	.0	.0	1.2	.4	.0	.0	.0	.0	.0	.0	1.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.0	2.3	2.3	.0	.0	.0	.0	.0	1.6	6.3	
	4-10	.8	3.9	7.8	1.6	.0	.0	.0	.0	.0		14.1	
	11-21	1.2	.4	2.7	2.3	2.3	.0	.0	.4	.0		9.4	
	22+	.0	.0	1.6	.0	.0	.0	.0	.0	.0		1.6	
	TOT %	2.0	4.3	14.5	6.3	2.3	.0	.0	.4	.0	1.6	31.3	
10+	0-3	1.2	1.6	6.3	.0	.0	1.6	.0	.4	.0	1.6	12.5	
	4-10	1.2	2.3	8.2	5.5	.0	.0	.0	.0	.0		17.2	
	11-21	.0	1.6	14.5	12.5	1.2	.0	1.6	.0	.0		31.3	
	22+	.0	.0	1.2	5.1	.0	.0	.0	.0	.0		6.3	
	TOT %	2.3	5.5	30.1	23.0	1.2	1.6	1.6	.4	.0	1.6	67.2	
	TOT OBS												64
	TOT PCT	4.3	9.8	45.7	29.7	3.5	1.6	1.6	.8	.0	3.1	100.0	

OCTOBER

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1884-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	8.3	16.7	8.3	.0	.0	.0	.0	33.3	66.7	12
06&09	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	50.0	50.0	4
12&15	.0	.0	6.7	.0	6.7	.0	.0	.0	.0	.0	13.3	86.7	15
18&21	.0	.0	.0	28.6	.0	.0	.0	.0	.0	.0	28.6	71.4	7
TOT	0	0	1	3	5	1	0	0	0	0	10	28	38
PCT	.0	.0	2.6	7.9	13.2	2.6	.0	.0	.0	.0	26.3	73.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.6	.0	.0	.0	32.1	64.3	28
06&09	.0	.0	.0	.0	20.0	80.0	5
12&15	.0	.0	.0	.0	40.0	60.0	25
18&21	.0	.0	.0	.0	.0	100.0	8
TOT	1	0	0	0	20	45	66
PCT	1.5	.0	.0	.0	30.3	68.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	8.3	25.0	66.7	12
06&09	.0	.0	.0	50.0	50.0	4
12&15	.0	7.1	7.1	7.1	85.7	14
18&21	.0	.0	28.6	.0	71.4	7
TOT	0	1	4	6	27	37
PCT	.0	2.7	10.8	16.2	73.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	6.5	.0	.0	.0	4	6.5
85/89	.0	.0	.0	.0	.0	8.1	1.6	.0	6	9.7
80/84	.0	.0	.0	3.2	1.6	22.6	35.5	4.8	42	67.7
75/79	.0	.0	.0	.0	.0	3.2	4.8	8.1	10	16.1
TOTAL	0	0	0	2	5	21	26	8	62	100.0
PCT	.0	.0	.0	3.2	8.1	33.9	41.9	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	3.2	1.6	.0	.0	1.6	.0	.0	.0
.0	.0	4.4	3.6	.0	1.6	.0	.0	.0	.0
4.0	9.3	35.5	16.5	.0	.0	.0	.8	.0	1.6
1.2	2.4	4.4	4.8	3.2	.0	.0	.0	.0	.0
5.2	11.7	47.6	26.6	3.2	1.6	1.6	.8	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	90	90	83	79	77	77	83.8	33
06&09	85	84	84	83	81	81	81	82.5	11
12&15	85	84	83	81	76	76	76	80.3	32
18&21	83	82	82	81	77	77	77	80.0	7
TOT	91	90	86	82	77	76	76	81.9	83

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	8.3	16.7	37.5	29.2	8.3	76	24
06&09	.0	.0	10.0	60.0	30.0	.0	77	10
12&15	.0	.0	.0	12.0	64.0	24.0	86	25
18&21	.0	.0	.0	50.0	33.3	16.7	83	6
TOT	0	2	5	21	28	9	81	65

OCTOBER

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1884-1977

AREA 0009 ISLE WALLIS
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	1.9	1	.0	1.9
4	.0	.0	1.9	5.6	.0	4	.0	7.4
3	.0	.0	1.9	.0	.0	1	.0	1.9
2	.0	.0	9.3	1.9	.0	6	.0	11.1
1	.0	.0	13.0	5.6	.0	10	.0	18.5
0	.0	1.9	7.4	1.9	.0	6	1.9	9.3
-1	.0	3.7	18.5	.0	.0	12	.0	22.2
-2	.0	5.6	3.7	.0	.0	5	.0	9.3
-4	.0	1.9	.0	.0	.0	1	.0	1.9
-5	1.9	5.6	.0	.0	.0	4	.0	7.4
-6	.0	1.9	1.9	.0	.0	2	.0	3.7
-7/-8	.0	3.7	.0	.0	.0	2	.0	3.7
TOTAL	1	13	31	8	1	54	1	53
PCT	1.9	24.1	57.4	14.8	1.9	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.6	1.4	.0	.0	.0	6.9
3-4	.0	1.4	.0	.0	.0	.0	1.4
5-6	.0	.0	5.6	.0	.0	.0	5.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.9	6.9	.0	.0	.0	13.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.2	4.2	.0	.0	.0	8.3
3-4	.0	9.7	20.8	.0	.0	.0	30.6
5-6	.0	.0	5.6	.0	.0	.0	5.6
7	.0	.0	4.2	.0	.0	.0	4.2
8-9	.0	.0	.0	9.7	.0	.0	9.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.9	34.7	9.7	.0	.0	58.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	5.6	.0	.0	.0	6.9
3-4	.0	.0	6.9	5.6	.0	.0	12.5
5-6	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.0	1.4	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	15.3	6.9	.0	.0	23.6

PERIOD: (OVER-ALL) 1963-1977

OCTOBER

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	4.2	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	4.2	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	

W								NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	15.8	10.5	.0	.0	.0	26.3	
3-4	.0	10.5	26.3	5.3	.0	.0	42.1	
5-6	.0	.0	15.8	.0	.0	.0	15.8	
7	.0	.0	5.3	.0	.0	.0	5.3	
8-9	.0	.0	.0	10.5	.0	.0	10.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	26.3	57.9	15.8	.0	.0	100.0	19

PERIOD: (OVER-ALL) 1958-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	2.7	5.4	2.7	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
6-7	.0	.0	8.1	24.3	10.8	8.1	8.1	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	6
8-9	.0	2.7	2.7	5.4	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
10-11	.0	.0	.0	.0	2.7	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
12-13	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	2	7	12	6	4	4	0	2	0	0	0	0	0	0	0	0	0	0	37	6
PCT	.0	5.4	18.9	32.4	16.2	10.8	10.8	.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1935-1977
(OVER-ALL) 1897-1977

AREA 0009 ISLE WALLIS
12.9S 176.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	10.0	.0	13.3	.0	.0	.0	.0	23.3	.0	.0	13.3	.0	.0	.0	.0	63.3
NE	.0	10.3	10.3	.0	.0	.0	.0	20.5	.0	10.3	5.1	.0	.0	.0	.0	64.1
E	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	2.7	.0	.0	.0	.0	92.0
SE	5.1	10.3	.0	.0	.0	.0	.0	15.4	5.1	.0	.0	.0	.0	.0	.0	79.5
S	.0	.0	.0	.0	.0	.0	.0	.0	30.8	.0	.0	.0	.0	.0	.0	69.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0	.0	75.0
NW	61.9	.0	.0	.0	.0	.0	.0	61.9	19.0	.0	.0	.0	.0	.0	.0	19.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	8.5	4.2	2.8	.0	.0	.0	.0	15.5	5.6	1.4	2.8	.0	.0	.0	.0	74.6
TOT OBS:	71															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.7	.0	.0	.0	.0	.0	.0	5.7	5.7	.0	.0	.0	.0	.0	.0	88.6
06&09	11.1	22.2	11.1	.0	.0	.0	.0	44.4	.0	.0	.0	.0	.0	.0	.0	55.6
12&15	5.6	5.6	5.6	.0	.0	.0	.0	16.7	11.1	.0	11.1	.0	.0	.0	.0	61.1
18&21	18.2	.0	.0	.0	.0	.0	.0	18.2	.0	9.1	.0	.0	.0	.0	.0	72.7
TOT PCT	8.2	4.1	2.7	.0	.0	.0	.0	15.1	5.5	1.4	2.7	.0	.0	.0	.0	75.3
TOT OBS:	73															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	9.1	1.2	.9	.0	.0		11.2	9.8	13.2	.0	25.0	.0	8.7	.0	.0	.0
NE	1.2	5.3	6.8	.0	.0	.0		13.2	10.5	6.3	.0	20.5	.0	20.7	.0	16.7	.0
E	4.7	14.4	8.2	.0	.0	.0		27.4	7.6	26.4	100.0	.0	.0	33.7	.0	25.0	100.0
SE	2.9	9.1	13.2	1.2	.0	.0		26.5	11.4	25.0	.0	36.4	.0	28.3	.0	25.0	.0
S	.6	3.2	.0	.0	.0	.0		3.8	6.9	9.0	.0	.0	.0	.0	.0	.0	.0
SW	1.2	1.2	.0	.0	.0	.0		2.4	3.5	5.6	.0	.0	.0	.0	.0	.0	.0
W	1.2	.6	2.9	.0	.0	.0		4.7	11.3	6.9	.0	6.8	.0	.0	.0	6.3	.0
NW	.0	1.8	6.5	.3	.0	.0		8.5	15.8	2.1	.0	11.4	.0	8.7	.0	27.1	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	5.6	.0	.0	.0	.0	.0	.0	.0
TOT OBS	12	38	33	2	0	0	85		9.8	36	1	11	0	23	0	12	2
TOT PCT	14.1	44.7	38.8	2.4	.0	.0		100.0		100.0	100.0	100.0	.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	7.9	.9	.0	.0		11.2	9.8	12.8	25.0	8.7	.0
NE	5.0	5.9	2.4	.0	.0		13.2	10.5	6.1	20.5	20.7	14.3
E	13.8	13.5	.0	.0	.0		27.4	7.6	28.4	.0	33.7	35.7
SE	4.1	16.5	5.9	.0	.0		26.5	11.4	24.3	36.4	28.3	21.4
S	1.8	2.1	.0	.0	.0		3.8	6.9	8.8	.0	.0	.0
SW	2.4	.0	.0	.0	.0		2.4	3.5	5.4	.0	.0	.0
W	1.8	2.1	.9	.0	.0		4.7	11.3	6.8	6.8	.0	5.4
NW	1.8	1.5	5.3	.0	.0		8.5	15.8	2.0	11.4	8.7	23.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	5.4	.0	.0	.0
TOT OBS	30	42	13	0	0	85		9.8	37	11	23	14
TOT PCT	35.3	49.4	15.3	.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.4	16.2	56.8	18.9	2.7	.0	.0	7.5	100.0	37
06&09	.0	.0	36.4	63.6	.0	.0	.0	12.2	100.0	11
12&15	.0	8.7	43.5	47.8	.0	.0	.0	10.8	100.0	23
18&21	.0	14.3	21.4	57.1	7.1	.0	.0	12.3	100.0	14
TOT	2	10	38	33	2	0	0	9.8		85
PCT	2.4	11.8	44.7	38.8	2.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.7	10.6		7.8
NE	.6	.0	7.2	6.7		6.6
E	10.6	8.9	6.7	.0		3.6
SE	4.4	4.4	4.4	13.3		6.0
S	.0	.0	2.2	2.2		7.0
SW	.0	2.2	.0	.0		3.0
W	.0	.0	1.7	1.7		7.0
NW	.0	.0	2.8	7.8		7.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	7	7	12	19	45	5.8
TOT PCT	15.6	15.6	26.7	42.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	3.9	4.4	.0	.0	.0	.0	3.9	
NE	.0	.0	.0	2.2	8.9	.0	.0	.0	.0	.0	3.3	
E	.0	.0	.0	.0	2.2	.0	2.2	.0	.0	.0	21.7	
SE	.0	.0	.0	4.4	6.7	2.2	.0	.0	.0	.0	13.3	
S	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	2.2	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	
NW	.0	.0	.0	.0	5.0	4.4	.0	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	4	12	5	1	0	0	0	23	45
TOT PCT	.0	.0	.0	8.9	26.7	11.1	2.2	.0	.0	.0	51.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
* OR >2000	8.9	8.9	13.3	13.3	13.3	13.3	13.3	13.3
* OR >1000	24.4	33.3	37.8	40.0	40.0	40.0	40.0	40.0
* OR >600	28.9	42.2	46.7	48.9	48.9	48.9	48.9	48.9
* OR >300	28.9	42.2	46.7	48.9	48.9	48.9	48.9	48.9
* OR >150	28.9	42.2	46.7	48.9	48.9	48.9	48.9	48.9
* OR > 0	28.9	42.2	46.7	48.9	48.9	48.9	48.9	48.9
TOTAL	13	19	21	22	22	22	22	22

TOTAL NUMBER OF OBS: 45

PCT FREQ NH <5/8: 51.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	2.2	20.0	15.6	13.3	4.4	11.1	11.1	22.2	.0	45

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	1.1	.0	.0	.0	.0	.0	.0	.4	.0	.0	1.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.1	.0	.0	.0	.0	.0	.0	.4	.0	.0	1.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	2.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	2.8	
5<10	PCP	1.4	1.4	.0	2.8	.0	.0	1.4	1.4	.0	.0	8.5	
	NO PCP	1.4	.7	.7	3.5	2.1	.0	1.8	2.5	.0	.0	12.7	
	TOT %	2.8	2.1	.7	6.3	2.1	.0	3.2	3.9	.0	.0	21.1	
10+	PCP	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	2.8	
	NO PCP	6.7	10.2	25.7	19.7	2.5	1.4	2.5	.4	.0	2.8	71.8	
	TOT %	6.7	11.6	25.7	21.1	2.5	1.4	2.5	.4	.0	2.8	74.6	
	TOT OBS												71
	TOT PCT	10.6	13.7	26.4	27.5	4.6	1.4	5.6	7.4	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	1.0	.0	.0	.0	.0	.0	.0	.3	.0		1.4	
	TOT %	1.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	2.8	.0		2.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	2.8	
5<10	0-3	.0	.0	.0	.7	.7	.0	1.4	.0	.0	.0	2.8	
	4-10	1.4	.0	1.4	.0	1.4	.0	.7	.7	.0		5.6	
	11-21	1.4	2.1	.7	4.2	.0	.0	1.0	3.1	.0		12.5	
	22+	.0	.0	.0	1.4	.0	.0	.0	.0	.0		1.4	
	TOT %	2.8	2.1	2.1	6.3	2.1	.0	3.1	3.8	.0	.0	22.2	
10+	0-3	.0	1.4	4.2	2.8	.0	1.4	.0	.0	.0	2.8	12.5	
	4-10	6.6	4.5	14.6	9.4	2.4	.0	.0	.0	.0		37.5	
	11-21	.0	5.6	6.6	8.7	.0	.0	2.4	.3	.0		23.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	6.6	11.5	25.3	20.8	2.4	1.4	2.4	.3	.0	2.8	73.6	
	TOT OBS												72
	TOT PCT	10.4	13.5	27.4	27.1	4.5	1.4	5.6	7.3	.0	2.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	5.9	17.6	11.8	.0	.0	.0	.0	35.3	64.7	17
06&09	.0	.0	.0	.0	44.4	11.1	.0	.0	.0	.0	55.6	44.4	9
12&15	.0	.0	.0	12.5	62.5	.0	.0	.0	.0	.0	75.0	25.0	8
18&21	.0	.0	.0	18.2	.0	18.2	9.1	.0	.0	.0	45.5	54.5	11
TOT	0	0	0	4	12	5	1	0	0	0	22	23	45
PCT	.0	.0	.0	8.9	26.7	11.1	2.2	.0	.0	.0	48.9	51.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	2.9	.0	14.3	82.9	35
06&09	.0	.0	.0	11.1	22.2	66.7	9
12&15	.0	.0	.0	.0	45.0	55.0	20
18&21	.0	.0	.0	9.1	18.2	72.7	11
TOT	0	0	1	2	18	54	75
PCT	.0	.0	1.3	2.7	24.0	72.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50yD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	11.8	23.5	64.7	17
06&09	.0	.0	11.1	44.4	44.4	9
12&15	.0	.0	12.5	62.5	25.0	8
18&21	.0	.0	27.3	18.2	54.5	11
TOT	0	0	7	15	23	45
PCT	.0	.0	15.6	33.3	51.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	4.2	1.4	.0	.0	4	5.6
85/89	.0	.0	.0	.0	5.6	9.7	1.4	.0	12	16.7
80/84	.0	.0	.0	.0	1.4	13.9	33.3	6.9	40	55.6
75/79	.0	.0	.0	1.4	1.4	1.4	6.9	11.1	16	22.2
TOTAL	0	0	0	1	9	19	30	13	72	100.0
PCT	.0	.0	.0	1.4	12.5	26.4	41.7	18.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.4	.0	4.2	.0	.0	.0	.0	.0	.0	.0
.0	1.7	9.0	3.1	1.4	.0	.0	.0	.0	1.4
8.0	7.6	8.7	19.8	3.1	2.8	2.4	1.7	.0	1.4
3.8	4.2	2.8	2.8	.0	.0	1.0	7.6	.0	.0
13.2	13.5	24.7	25.7	4.5	2.8	3.5	9.4	.0	2.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	92	91	90	84	79	78	78	84.7	38
06&09	83	82	82	79	77	77	77	79.8	10
12&15	83	82	82	82	78	78	78	81.1	25
18&21	83	82	82	79	75	75	75	79.6	14
TOT	92	90	89	82	78	75	75	82.3	87

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	20.6	41.2	29.4	8.8	77	34
06&09	.0	.0	11.1	22.2	55.6	11.1	81	9
12&19	.0	5.6	5.6	5.6	61.1	22.2	83	18
18&21	.0	.0	.0	14.3	42.9	42.9	88	14
TOT	0	1	9	19	32	14	81	75

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PERIOD: (PRIMARY) 1935-1977
(OVER-ALL) 1897-1977

AREA 0009 ISLE WALLIS
12.9S 176.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	1.5	1.5	2	.0	3.1
6	.0	.0	.0	3.1	.0	2	.0	3.1
4	.0	.0	.0	6.2	.0	4	.0	6.2
3	.0	.0	.0	1.5	1.5	2	.0	3.1
2	.0	.0	1.5	.0	.0	1	.0	1.5
1	.0	.0	4.6	3.1	.0	5	.0	7.7
0	.0	1.5	12.3	.0	.0	9	1.5	12.3
-1	.0	1.5	12.3	3.1	.0	11	1.5	15.4
-2	.0	1.5	10.8	.0	.0	8	.0	12.3
-3	.0	4.6	3.1	.0	.0	5	.0	7.7
-4	.0	6.2	4.6	.0	.0	7	.0	10.8
-5	.0	3.1	1.5	.0	.0	3	.0	4.6
-6	.0	3.1	.0	.0	.0	2	.0	3.1
-7/-8	1.5	1.5	.0	.0	.0	2	.0	3.1
-9/-10	.0	1.5	.0	.0	.0	1	.0	1.5
-14/-16	.0	1.5	.0	.0	.0	1	.0	1.5
TOTAL	1	17	33	12	2	65	2	63
PCT	1.5	26.2	50.8	18.5	3.1	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	8.3	3.0	.0	.0	.0	11.4
5-6	.0	.0	.0	2.3	.0	.0	2.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.4	3.0	2.3	.0	.0	16.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	3.0	.0	6.1	.0	.0	.0	9.1
3-4	.0	3.8	.0	.0	.0	.0	3.8
5-6	.0	.0	3.0	.0	.0	.0	3.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	3.8	9.1	.0	.0	.0	15.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	6.1	6.1	.0	.0	.0	.0	12.1
1-2	.0	9.1	.0	.0	.0	.0	9.1
3-4	.0	.0	6.1	.0	.0	.0	6.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	6.1	15.2	6.1	.0	.0	.0	27.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	.0	6.1	3.0	.0	.0	9.1
5-6	.0	.0	3.0	.0	.0	.0	3.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	9.1	3.0	.0	.0	15.2

PERIOD: (OVER-ALL) 1963-1977

NOVEMBER

TABLE 18 (CONT)

AREA 0009 ISLE WALLIS
12.9S 176.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.0	.0	.0	.0	.0	3.0	3.0	.0	.0	.0	.0	.0	3.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	.0	.0	.0	.0	3.0	3.0	.0	.0	.0	.0	.0	3.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	4.5	.0	.0	.0	4.5	.0	.0	13.6	.0	.0	.0	13.6	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	4.5	.0	.0	.0	4.5	.0	.0	13.6	.8	.0	.0	14.4	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.1	9.1	.0	.0	.0	.0	18.2	
1-2	3.0	15.2	6.1	.0	.0	.0	24.2	
3-4	.0	12.1	33.3	3.0	.0	.0	48.5	
5-6	.0	.0	6.1	3.0	.0	.0	9.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.1	36.4	45.5	6.1	.0	.0	100.0	33

PERIOD: (OVER-ALL) 1953-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	17.1	14.6	7.3	4.9	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
6-7	.0	.0	7.3	7.3	7.3	9.8	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
8-9	.0	4.9	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
TOTAL	0	11	9	8	5	5	3	0	0	0	0	0	0	0	0	0	0	0	0	41	5
PCT	.0	26.8	22.0	19.5	12.2	12.2	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1928-1977
(OVER-ALL) 1873-1977

AREA 0009 ISLE WALLIS
12.8S 176.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	12.0	.0	.0	.0	.0	.0	12.0	.0	.0	.0	.0	.0		.0	88.0
NE	28.1	18.8	.0	.0	.0	.0	.0	46.9	12.5	.0	.0	.0	.0		.0	40.6
E	18.4	15.8	.0	.0	.0	.0	.0	34.2	.0	.0	.0	.0	.0		.0	65.8
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	46.7	.0	.0	.0	.0		.0	53.3
SW	44.4	.0	.0	.0	.0	.0	.0	44.4	11.1	.0	.0	.0	.0		.0	44.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	12.9	3.2	.0	.0	.0	.0	.0	16.1	12.9	.0	.0	.0	.0		.0	71.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	12.8	8.5	.0	.0	.0	.0	.0	21.3	8.5	.0	.0	.0	.0		.0	70.2
TOT OBS:	47															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	13.6	18.2	.0	.0	.0	.0	.0	31.8	.0	.0	.0	.0	.0		.0	68.2
06&09	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0		.0	80.0
12&15	22.2	11.1	.0	.0	.0	.0	.0	33.3	11.1	.0	.0	.0	.0		.0	55.6
18&21	14.3	.0	.0	.0	.0	.0	.0	14.3	14.3	.0	.0	.0	.0		.0	71.4
TOT PCT	12.5	10.4	.0	.0	.0	.0	.0	22.9	8.3	.0	.0	.0	.0		.0	68.8
TOT OBS:	48															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	8.2	5.0	.0	.0	.0		13.2	8.9	18.5	.0	18.2	.0	11.1	.0	.0	.0
NE	.9	7.7	5.5	.5	.0	.0		14.5	10.5	8.7	100.0	9.1	100.0	16.7	100.0	.0	50.0
E	2.7	11.8	8.6	1.4	.0	.0		24.5	11.0	30.4	.0	15.9	.0	16.7	.0	34.4	50.0
SE	.0	10.0	9.5	.0	.0	.0		19.5	10.0	14.1	.0	29.5	.0	22.2	.0	28.1	.0
S	.0	5.0	1.8	.0	.0	.0		6.8	11.1	4.3	.0	.0	.0	22.2	.0	9.4	.0
SW	.0	2.3	.0	1.8	.0	.0		4.1	13.8	4.3	.0	.0	.0	11.1	.0	3.1	.0
W	.0	.0	1.4	.0	.0	.0		1.4	14.0	3.3	.0	.0	.0	.0	.0	.0	.0
NW	1.8	2.3	8.2	1.8	.0	.0		14.1	13.8	12.0	.0	27.3	.0	.0	.0	25.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	4.3	.0	.0	.0	.0	.0	.0	.0
TOT OBS	4	26	22	3	0	0	55		10.8	23	1	11	1	9	1	8	1
TOT PCT	7.3	47.3	40.0	5.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	8.2	3.6	1.4	.0	.0		13.2	8.9	17.7	16.7	10.0	.0
NE	5.0	7.3	2.3	.0	.0		14.5	10.5	12.5	16.7	25.0	5.6
E	4.5	15.5	4.5	.0	.0		24.5	11.0	29.2	14.6	15.0	36.1
SE	7.3	10.0	2.3	.0	.0		19.5	10.0	13.5	27.1	20.0	25.0
S	.0	5.0	1.8	.0	.0		6.8	11.1	4.2	.0	20.0	8.3
SW	1.8	.5	1.8	.0	.0		4.1	13.8	4.2	.0	10.0	2.8
W	.0	1.4	.0	.0	.0		1.4	14.0	3.1	.0	.0	.0
NW	2.3	7.7	4.1	.0	.0		14.1	13.8	11.5	25.0	.0	22.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	4.2	.0	.0	.0
TOT OBS	17	28	10	0	0	55		10.8	24	12	10	9
TOT PCT	30.9	50.9	18.2	.0	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1928-1977
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.2	4.2	41.7	45.8	4.2	.0	.0	11.0	100.0	24
06&09	.0	.0	33.3	58.3	8.3	.0	.0	12.5	100.0	12
12&15	.0	10.0	70.0	10.0	10.0	.0	.0	9.5	100.0	10
18&21	.0	11.1	55.6	33.3	.0	.0	.0	9.6	100.0	9
TOT	1	3	26	22	3	0	0	10.8		55
PCT	1.8	5.5	47.3	40.0	5.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.7	2.7	2.7	7.1		5.8
NE	.0	.9	3.6	11.6		7.5
E	6.3	2.7	9.8	6.3		5.1
SE	.9	4.5	8.0	.0		4.8
S	.0	3.6	3.6	2.7		5.8
SW	.0	.0	.0	.9		8.0
W	.0	.0	.0	.0		.0
NW	.9	.0	8.0	7.1		7.1
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	3.6	.0		5.0
TOT OBS	3	4	11	10	28	6.0
TOT PCT	10.7	14.3	39.3	35.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	12.5	
NE	.0	.0	.0	.0	.0	7.1	.0	.9	.0	3.6	4.5	
E	.0	.0	.0	3.6	.0	.0	.0	2.7	.0	.0	18.8	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.4	
S	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	3.6	
SW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	3.6	3.6	.9	.0	.0	.0	.0	.0	8.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	5	1	2	0	1	0	1	17	28
TOT PCT	.0	.0	3.6	17.9	3.6	7.1	.0	3.6	.0	3.6	60.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6
* OR >5000	.0	3.6	7.1	7.1	7.1	7.1	7.1	7.1
* OR >3500	.0	3.6	7.1	7.1	7.1	7.1	7.1	7.1
* OR >2000	3.6	10.7	14.3	14.3	14.3	14.3	14.3	14.3
* OR >1000	3.6	10.7	17.9	17.9	17.9	17.9	17.9	17.9
* OR >600	14.3	28.6	35.7	35.7	35.7	35.7	35.7	35.7
* OR >300	14.3	32.1	39.3	39.3	39.3	39.3	39.3	39.3
* OR >150	14.3	32.1	39.3	39.3	39.3	39.3	39.3	39.3
* OR > 0	14.3	32.1	39.3	39.3	39.3	39.3	39.3	39.3
TOTAL	4	9	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 28 PCT FREQ NH <5/8: 60.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.0	3.3	13.3	36.7	10.0	6.7	10.0	3.3	16.7	.0	30

DECEMBER

PERIOD: (PRIMARY) 1928-1977
(OVER-ALL) 1873-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
2<5	PCP	1.6	.5	1.6	.0	.0	.0	.0	.5	.0	.0	4.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.6	.5	1.6	.0	.0	.0	.0	.5	.0	.0	4.3	
5<10	PCP	.0	5.3	3.2	.0	.0	2.1	.0	.0	.0	.0	10.6	
	NO PCP	4.3	4.3	2.1	.0	3.7	.5	.0	6.4	.0	.0	21.3	
	TOT %	4.3	9.6	5.3	.0	3.7	2.7	.0	6.4	.0	.0	31.9	
10+	PCP	.0	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	4.3	
	NO PCP	7.4	4.8	11.2	10.5	4.3	2.1	1.6	7.4	.0	2.1	57.4	
	TOT %	7.4	4.8	13.3	10.5	4.3	2.1	1.6	9.6	.0	2.1	61.7	
	TOT OBS												47
	TOT PCT	13.3	17.0	20.2	10.5	8.0	4.8	1.6	16.5	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	2.1	.0	.0	.0	.0	.0	.0	.0		2.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	1.6	.0	.0	.0	.0	.0	.0	.5	.0		2.1	
	22+	.0	.5	1.6	.0	.0	.0	.0	.0	.0		2.1	
	TOT %	1.6	.5	1.6	.0	.0	.0	.0	.5	.0	.0	4.2	
5<10	0-3	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	2.1	
	4-10	4.2	4.2	2.1	2.1	1.6	.5	.0	2.1	.0		16.7	
	11-21	.0	4.2	2.1	.0	2.1	.0	.0	2.1	.0		10.4	
	22+	.0	.0	.0	.0	.0	2.1	.0	2.1	.0		4.2	
	TOT %	4.2	9.4	5.2	2.1	3.6	2.6	.0	6.3	.0	.0	33.3	
10+	0-3	.0	.0	2.1	.0	.0	.0	.0	2.1	.0	2.1	6.3	
	4-10	3.1	2.6	5.2	9.4	4.2	2.1	.0	.5	.0		27.1	
	11-21	4.2	2.1	5.7	6.8	.0	.0	1.6	6.8	.0		27.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	7.3	4.7	13.0	16.1	4.2	2.1	1.6	9.4	.0	2.1	60.4	
	TOT OBS												48
	TOT PCT	13.0	16.7	19.8	18.2	7.8	4.7	1.6	16.1	.0	2.1	100.0	

DECEMBER

PERIOD: (PRIMARY) 1928-1977
(OVER-ALL) 1873-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	14.3	7.1	7.1	.0	7.1	.0	7.1	42.9	57.1	14
06&09	.0	.0	11.1	.0	.0	11.1	.0	.0	.0	.0	22.2	77.8	9
12&15	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	100.0	.0	1
18&21	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	33.3	66.7	6
TOT	0	0	1	5	1	2	0	1	0	1	11	19	30
PCT	.0	.0	3.3	16.7	3.3	6.7	.0	3.3	.0	3.3	36.7	63.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	9.1	27.3	63.6	22
06&09	.0	.0	.0	.0	30.0	70.0	10
12&15	.0	.0	10.0	.0	60.0	30.0	10
18&21	.0	.0	.0	.0	28.6	71.4	7
TOT	0	0	1	2	17	29	49
PCT	.0	.0	2.0	4.1	34.7	59.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	28.6	14.3	57.1	14
06&09	.0	11.1	11.1	11.1	77.8	9
12&15	.0	.0	100.0	.0	.0	1
18&21	.0	.0	50.0	.0	50.0	4
TOT	0	1	8	3	17	28
PCT	.0	3.6	28.6	10.7	60.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	2.2	.0	2.2	.0	.0	2	4.4
85/89	.0	.0	.0	.0	2.2	11.1	.0	.0	6	13.3
80/84	.0	.0	.0	.0	.0	31.1	37.8	.0	31	68.9
75/79	.0	.0	.0	.0	.0	2.2	2.2	4.4	4	8.9
70/74	.0	.0	.0	.0	.0	.0	.0	4.4	2	4.4
TOTAL	0	0	0	1	1	21	18	4	45	100.0
PCT	.0	.0	.0	2.2	2.2	46.7	40.0	8.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	2.2	.0	.0	.0	.0	2.2	.0	.0
3.9	.6	2.2	2.2	2.2	2.2	.0	.0	.0	.0
12.2	8.9	11.7	19.4	3.9	.6	1.7	8.3	.0	2.2
.0	2.2	4.4	.0	.0	2.2	.0	.0	.0	.0
.0	.6	3.9	.0	.0	.0	.0	.0	.0	.0
16.1	12.2	24.4	21.7	6.1	5.0	1.7	10.6	.0	2.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	90	89	82	76	74	74	82.8	24
06&09	90	89	89	82	80	80	80	82.9	12
12&15	84	83	83	80	77	77	77	80.5	10
18&21	84	83	83	82	72	72	72	80.0	9
TOT	91	90	89	82	75	72	72	81.9	55

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	4.5	50.0	36.4	9.1	80	22
06&09	.0	9.1	.0	45.5	45.5	.0	79	11
12&15	.0	.0	.0	33.3	66.7	.0	82	6
18&21	.0	.0	.0	50.0	16.7	33.3	85	6
TOT	0	1	1	21	18	4	81	45

DECEMBER

PERIOD: (PRIMARY) 1928-1977
(OVER-ALL) 1873-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	2.4	1	.0	2.4
7/8	.0	.0	.0	2.4	1	.0	2.4
6	.0	.0	.0	2.4	1	.0	2.4
3	.0	2.4	.0	.0	1	.0	2.4
2	.0	4.8	2.4	.0	3	.0	7.1
1	.0	11.9	7.1	.0	8	.0	19.0
0	.0	9.5	2.4	.0	5	.0	11.9
-1	.0	11.9	.0	.0	5	.0	11.9
-2	4.8	9.5	.0	.0	6	.0	14.3
-3	2.4	2.4	.0	.0	2	.0	4.8
-4	2.4	.0	.0	.0	1	.0	2.4
-5	11.9	2.4	.0	.0	6	.0	14.3
-6	.0	2.4	.0	.0	1	.0	2.4
-7/-8	2.4	.0	.0	.0	1	.0	2.4
TOTAL	10	24	5	3	42	0	42
PCT	23.8	57.1	11.9	7.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.7	.0	.0	.0	.0	2.7
1-2	.0	2.7	6.3	.0	.0	.0	8.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	3.6	.0	.0	.0	3.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	9.8	.0	.0	.0	15.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	3.6	.0	.0	.0	4.5
3-4	.0	3.6	7.1	.0	.0	.0	10.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.9	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	10.7	.9	.0	.0	16.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	3.6	5.4	.0	.0	.0	.0	8.9
3-4	.0	.0	13.4	.0	.0	.0	13.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.7	.0	.0	2.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.6	5.4	13.4	2.7	.0	.0	25.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.6	.0	.0	.0	.0	3.6
1-2	.0	5.4	.0	.0	.0	.0	5.4
3-4	.0	.0	8.0	.0	.0	.0	8.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.9	8.0	.0	.0	.0	17.0

PERIOD: (OVER-ALL) 1963-1977

DECEMBER

TABLE 18 (CONT)

AREA 0009 ISLE WALLIS
12.8S 176.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	9.8	.0	.0	.0	.0	9.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.8	.0	.0	.0	.0	9.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.0	.0	.0	.0	.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	.0	.9	.0	.0	.0	.9	
3-4	.0	.0	7.1	3.6	.0	.0	10.7	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.9	8.0	3.6	.0	.0	12.5	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	7.1	.0	.0	.0	.0	10.7	
1-2	3.6	25.0	10.7	.0	.0	.0	39.3	
3-4	.0	3.6	35.7	3.6	.0	.0	42.9	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	3.6	.0	.0	.0	3.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	3.6	.0	.0	3.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.1	35.7	50.0	7.1	.0	.0	100.0	28

PERIOD: (OVER-ALL) 1964-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	10.7	14.3	.0	7.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
6-7	.0	.0	7.1	10.7	14.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
8-9	.0	.0	7.1	17.9	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
10-11	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	0
TOTAL	1	3	9	8	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	28	4
PCT	3.6	10.7	32.1	28.6	21.4	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1903-1978
(OVER-ALL) 1866-1978

AREA 0009 ISLE WALLIS
12.8S 176.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.9	2.2	1.1	.0	.0	.0	.0	14.2	.0	1.1	4.8	.0	1.4		.0	71.2
NE	8.3	10.3	1.2	.0	.0	.0	.0	19.8	2.6	1.9	1.9	.0	1.2		.0	73.7
E	4.6	0.5	1.4	.0	.0	.0	.0	12.5	5.1	2.3	3.2	.0	.0		.0	77.1
SE	4.2	5.8	.7	.0	.0	.0	.0	10.7	2.5	1.0	2.9	.0	.0		.0	82.8
S	2.7	3.3	.0	.0	.0	.0	.0	6.0	10.6	2.1	1.3	.0	.0		.0	71.7
SW	3.7	.0	5.6	.0	.0	.0	.0	9.3	17.6	.0	.0	.0	.0		.0	48.1
W	2.1	0.7	.0	.0	.0	.0	.0	8.8	4.4	.0	.0	.0	.0		.0	70.1
NW	17.2	4.3	.5	.0	.0	.0	.0	22.1	3.2	.0	.5	.0	.0		.0	65.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2		.0	70.8
TOT PCT	5.8	0.6	1.3	.0	.0	.0	.0	13.7	4.5	1.7	2.7	.0	.3		.0	77.4
TOT OBS:	686															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.9	3.4	.8	.0	.0	.0	.0	11.7	2.6	.0	2.1	.0	.0		.0	83.6
06&09	6.4	4.6	1.5	.0	.0	.0	.0	12.4	8.7	1.2	.0	.0	.0		.0	77.7
12&15	5.7	11.1	1.4	.0	.0	.0	.0	18.2	3.8	4.0	6.2	.0	.8		.0	67.9
18&21	5.3	4.8	.9	.0	.0	.0	.0	11.0	4.6	1.5	.0	.0	.0		.0	74.5
TOT PCT	5.9	6.6	1.3	.0	.0	.0	.0	13.8	4.4	1.9	2.8	.0	.3		.0	77.2
TOT OBS:	703															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	4.2	2.8	.3	.0	.0		8.3	8.5	10.7	.0	6.4	.0	7.6	.0	5.3	.0
NE	1.0	7.1	3.3	.3	.0	.0		11.8	9.2	11.9	8.3	12.2	18.8	12.8	16.7	6.5	6.3
E	3.0	14.3	12.3	1.4	.0	.0		31.0	10.4	29.2	8.3	30.3	14.6	33.0	.0	29.8	22.9
SE	1.3	10.8	16.0	2.4	.1	.0		30.5	11.8	32.0	.0	28.0	4.2	29.2	8.3	26.8	4.2
S	.2	2.6	1.5	.3	.0	.0		4.6	9.6	4.8	.0	3.3	.0	5.5	.0	5.8	.0
SW	.2	1.0	.5	.2	.0	.0		1.9	6.8	2.2	.0	1.0	.0	1.9	.0	2.7	.0
W	.4	1.0	1.4	.2	.2	.0		3.2	9.8	2.7	.0	5.3	.0	1.8	.0	6.4	.0
NW	.7	1.9	2.2	1.3	.1	.0		6.2	10.9	4.3	.0	9.5	4.2	5.6	.0	7.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	2.3	.0	3.9	.0	2.6	.0	.8	.0
TOT OBS							889		11.0	399	2	124	6	256	3	93	6
TOT PCT	10.4	42.9	40.0	6.4	.4	.0		100.0		100.0	16.7	100.0	41.7	100.0	25.0	91.7	33.3

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	4.5	.5	.1	.0		8.3	8.5	10.6	6.1	7.4	5.0
NE	3.9	6.5	1.2	.1	.0		11.8	9.2	12.2	13.2	13.7	6.9
E	7.9	18.0	5.0	.2	.0		31.0	10.4	29.2	30.3	32.7	31.7
SE	5.3	16.5	8.3	.4	.0		30.5	11.8	31.8	27.9	29.1	27.3
S	1.0	2.8	.7	.1	.0		4.6	9.6	4.8	3.1	5.3	5.7
SW	.9	.8	.2	.0	.0		1.9	6.8	2.2	.9	1.8	2.2
W	.9	1.4	.7	.2	.0		3.2	9.8	2.7	5.0	1.8	5.3
NW	1.5	2.3	1.7	.6	.0		6.2	10.9	4.2	10.0	5.6	6.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	2.3	3.6	2.6	.8
TOT OBS						889		11.0	401	130	259	99
TOT PCT	27.3	52.8	18.3	1.6	.0		100.0		100.0	100.0	100.0	91.7

ANNUAL

PERIOD: (PRIMARY) 1903-1978
(OVER-ALL) 1866-1978

AREA 0009 ISLE WALLIS
13.3S 176.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	9.2	43.3	39.0	6.2	.0	.0	10.9	100.0	401
06&09	3.6	3.1	38.9	47.9	6.5	.0	.0	11.7	100.0	130
12&15	2.6	8.1	46.4	36.6	5.6	.8	.0	10.7	100.0	259
18&21	.8	10.1	35.1	38.6	6.1	.9	.0	10.4	91.7	99
TOT								11.0		889
PCT	2.6	7.8	42.9	40.0	6.4	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.8	1.9	2.2		4.1
NE	1.3	2.6	4.7	3.4		5.0
E	8.4	9.3	13.8	4.1		4.6
SE	4.8	7.9	9.9	3.6		4.6
S	.4	.9	2.5	.8		5.1
SW	.4	.4	.5	.8		3.1
W	.0	.9	1.3	1.1		3.6
NW	.2	.4	2.4	3.8		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.5	1.1	.3	.0		1.3
TOT OBS					338	5.0
TOT PCT	18.4	24.5	37.2	19.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.2	1.0	.4	.3	.0	.0	.0	4.6	
NE	.0	.0	.1	1.2	1.6	1.2	.0	.1	.0	.3	7.5	
E	.2	.0	.6	2.5	2.8	.9	.2	.2	.0	.0	28.2	
SE	.1	.2	.6	2.2	3.0	1.0	.0	.0	.0	.0	19.0	
S	.0	.0	.0	.9	.2	.7	.0	.0	.0	.0	2.8	
SW	.0	.0	.7	.1	.4	.0	.0	.0	.0	.0	.9	
W	.0	.3	.2	.3	.6	.7	.0	.0	.0	.0	1.4	
NW	.2	.0	.6	1.2	1.1	.4	.4	.0	.0	.0	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	2.6	
TOT OBS												338
TOT PCT	.4	.5	2.7	8.8	10.7	5.3	.9	.3	.0	.3	70.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.0	.3	.6	.6	.6	.6	.6	.6
* OR >3500	.4	1.2	1.5	1.5	1.5	1.5	1.5	1.5
* OR >2000	4.4	5.7	6.6	6.6	6.6	6.6	6.6	6.6
* OR >1000	11.3	15.9	17.1	17.3	17.3	17.3	17.3	17.3
* OR >600	17.6	24.0	26.1	26.2	26.2	26.4	26.4	26.4
* OR >300	18.7	26.4	28.7	28.9	28.9	29.1	29.1	29.1
* OR >150	19.2	26.9	29.2	29.4	29.4	29.6	29.6	29.6
* OR > 0	19.2	26.9	29.7	29.9	29.9	30.1	30.1	30.1

TOTAL NUMBER OF OBS: 346 PCT FREQ NH <5/8: 69.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.6	9.8	18.7	24.0	13.5	7.1	8.3	5.9	10.1 .4	375

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	.2	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	.2	
	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	PCP	.1	.2	.0	.0	.0	.0	.0	*	.0	.0	.3	
1<2	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.3	.0	.0	.0	.0	.0	*	.0	.0	.5	
	PCP	.3	.2	.3	.2	.0	.0	.1	.6	.0	.0	1.8	
2<5	NO PCP	.0	.0	.0	.1	.1	.0	.4	.3	.0	.0	1.0	
	TOT %	.3	.2	.3	.4	.1	.0	.5	1.0	.0	.0	2.8	
	PCP	.4	1.5	1.7	1.8	.1	.4	.4	1.0	.0	.0	7.4	
5<10	NO PCP	1.0	2.1	5.8	6.0	1.2	.5	.7	1.9	.0	.1	19.4	
	TOT %	1.5	3.6	7.5	7.9	1.4	.9	1.1	2.9	.0	.1	26.8	
	PCP	.2	.4	1.3	1.3	.2	.0	.0	.4	.0	.0	3.8	
10+	NO PCP	5.0	7.4	21.5	21.7	2.5	1.2	2.1	2.3	.0	2.2	65.9	
	TOT %	5.2	7.8	22.7	23.0	2.6	1.2	2.1	2.7	.0	2.2	69.6	
	TOT OBS												685
	TOT PCT	7.1	12.2	30.7	31.3	4.1	2.1	3.6	6.6	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.1	.1	*	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	.3	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.1	.0	.0	.0	.0	.0	.0	*	.0		.1	
	TOT %	.2	.3	.0	.0	.0	.0	.0	*	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
2<5	4-10	.1	.0	.1	.1	.0	.0	.0	.0	.0		.4	
	11-21	.1	.1	*	.1	.1	.0	.1	.3	.0		.9	
	22+	.0	.1	.2	.2	.0	.0	.2	.7	.0		1.3	
	TOT %	.3	.2	.3	.4	.1	.0	.5	1.0	.0	.0	2.7	
	0-3	.2	.2	.7	.5	.1	.0	.3	.2	.0	.1	2.3	
5<10	4-10	.7	1.9	3.6	2.4	.7	.5	.3	.8	.0		10.9	
	11-21	.6	1.5	3.0	4.4	.5	.2	.4	.9	.0		11.4	
	22+	.0	.0	.3	.7	.1	.2	.0	1.0	.0		2.3	
	TOT %	1.5	3.6	7.6	8.0	1.3	.8	1.1	2.8	.0	.1	26.9	
	0-3	.9	1.0	2.2	1.1	.2	.2	.0	.6	.0	2.2	8.4	
10+	4-10	2.3	4.5	10.1	8.6	1.6	.6	.8	.9	.0		29.2	
	11-21	1.8	2.3	9.7	11.3	.8	.4	1.1	1.1	.0		28.5	
	22+	.1	.0	.9	2.0	.1	.0	.2	.1	.0		3.4	
	TOT %	5.1	7.8	22.8	22.9	2.6	1.2	2.1	2.7	.0	2.2	69.5	
	TOT OBS												689
	TOT PCT	7.0	12.1	30.9	31.3	4.0	2.1	3.6	6.5	.0	2.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.6	.8	.9	6.7	7.4	4.8	.6	.6	.0	.6	22.9	77.1	122
06&09	.0	1.0	2.0	6.9	16.4	4.6	1.5	.0	.0	.0	32.4	67.6	93
12&15	.8	.0	2.9	14.8	11.7	1.8	.0	.0	.0	.0	31.9	68.1	77
18&21	.0	.0	2.9	14.9	11.5	5.3	.8	.0	.0	.0	35.4	56.3	70
TOT													362
PCT	.4	.5	2.5	8.8	10.2	4.9	.9	.3	.0	.3	28.7	71.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.3	.2	2.6	16.6	80.0	329
06&09	.6	.0	.0	3.9	16.1	79.4	102
12&15	.0	.0	1.3	2.8	52.9	43.0	201
18&21	.0	.0	.0	2.9	16.5	72.3	75
TOT							707
PCT	.2	.1	.5	2.7	26.9	69.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.6	2.9	12.4	12.3	75.3	121
06&09	.0	3.8	12.0	21.5	66.4	91
12&15	.9	4.4	21.4	17.3	61.3	69
18&21	.0	3.3	21.7	16.1	53.8	65
TOT						346
PCT	.4	4.0	14.9	15.9	69.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.3	1.0	.7	.4	.3		2.7
85/89	.0	.0	.0	.0	2.5	8.6	2.8	3.8		17.7
80/84	.0	.0	.2	.4	2.1	19.9	34.6	9.1		66.3
75/79	.0	.0	.0	.1	.4	1.7	4.2	6.3		12.7
70/74	.0	.0	.0	.0	.0	.2	.0	.4		.6
TOTAL									641	100.0
PCT	.0	.0	.2	.8	6.0	31.0	42.0	19.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.2	.9	.8	.1	.0	.1	.2	.0	.1
1.4	2.7	5.1	6.2	.4	.4	.5	.6	.0	.5
5.6	7.9	23.1	17.7	2.5	1.6	2.3	4.0	.0	1.5
1.0	1.8	2.9	4.0	.8	.3	.7	1.2	.0	.1
.0	*	.3	.2	.0	.0	.0	.0	.0	.0
8.2	12.7	32.4	28.9	3.8	2.2	3.7	6.0	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	97	90	89	84	79	77	71	84.0	399
06&09	90	84	84	82	79	79	76	81.6	128
12&15	89	83	83	81	78	77	75	80.9	268
18&21	86	75	75	74	71	72	72	80.7	94
TOT	97	90	87	82	78	75	71	82.4	889

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.2	8.3	37.5	31.7	21.4	82	288
06&09	.0	1.8	8.1	35.8	44.7	9.7	80	114
12&15	.0	.5	2.7	21.7	56.1	19.0	84	168
18&21	.0	.0	2.1	32.2	39.3	18.0	83	85
TOT	0	7	41	195	275	137	82	655

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.1	.9	6	.0	1.0
6	.0	.0	.0	.4	.4	5	.0	.8
5	.0	.0	.3	.2	.4	4	.0	.9
4	.0	.0	.2	1.3	.0	10	.0	1.5
3	.0	.0	1.1	1.4	.1	13	.0	2.6
2	.0	.0	2.3	2.1	.0	25	.0	4.4
1	.0	.0	5.6	2.9	.0	46	.3	8.2
0	.0	1.4	9.6	1.8	.0	68	.7	12.1
-1	.0	3.8	15.2	.8	.0	104	.9	18.9
-2	.0	2.8	12.8	.6	.0	87	1.2	15.0
-3	.2	4.4	4.8	.3	.0	48	.3	9.4
-4	.0	2.8	3.5	.5	.0	37	.0	6.9
-5	.7	3.7	2.3	.0	.0	37	.0	6.7
-6	.0	1.8	1.8	.0	.0	20	.0	3.6
-7/-8	.1	2.2	.6	.0	.0	15	.0	2.9
-9/-10	.2	.8	.0	.0	.0	5	.0	1.0
-11/-13	.2	.2	.0	.0	.0	2	.0	.4
-14/-16	.0	.1	.0	.0	.0	1	.0	.1
TOTAL						534		
PCT	1.3	24.0	60.1	12.5	2.0	100.0	3.3	96.7

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.2	.0	.0	.0	.0	1.1
1-2	.0	2.0	.9	.0	.0	.0	2.9
3-4	.0	1.1	1.1	.0	.0	.0	2.1
5-6	.0	.0	.0	.2	.0	.0	.2
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.3	2.3	.5	.0	.0	6.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.3	2.4	1.9	.0	.0	.0	4.6
3-4	.0	2.0	2.3	.3	.0	.0	4.6
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.4	5.2	.4	.0	.0	10.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.3	.0	.0	.0	.0	2.3
1-2	.3	7.8	3.4	.0	.0	.0	11.6
3-4	.0	3.8	11.3	.8	.0	.0	15.9
5-6	.0	1.0	3.0	.8	.0	.0	4.7
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	.0	.8	.0	.0	.8
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	13.8	19.1	2.6	.0	.0	37.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.3	.0	.0	.0	.0	1.1
1-2	1.0	5.7	1.9	.0	.0	.0	8.6
3-4	.0	.6	5.6	1.0	.0	.0	7.2
5-6	.0	.1	2.6	.4	.0	.0	3.1
7	.0	.3	2.7	.0	.0	.0	3.0
8-9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.5	.6	.0	.0	1.1
12	.0	.0	.0	.8	.0	.0	.8
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	7.0	13.5	3.0	.0	.0	25.4

PERIOD: (OVER-ALL) 1963-1978 ANNUAL AREA 0009 ISLE WALLIS 12.8S 176.2W

TABLE 1g (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.6	1.6	.0	.0	.0	.0	2.2
3-4	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.4	1.7	.0	.0	.0	4.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.4
1-2	.0	.7	.8	.0	.0	.0	1.5
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.2	.8	.0	.0	.0	2.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.8	1.0	.0	.0	.0	1.8
3-4	.0	.6	.7	.8	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	1.6	1.0	.0	.0	4.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.1	.0	.0	.0	.0	.3	
1-2	.5	.1	.9	.0	.0	.0	1.4	
3-4	.0	.6	1.8	1.3	.0	.0	3.8	
5-6	.0	.0	.3	.1	.0	.0	.4	
7	.0	.0	.0	.9	.0	.0	.9	
8-9	.0	.0	.0	.3	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	.7	3.0	2.6	.0	.0	7.0	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.4	3.1	.0	.0	.0	.0	8.5	
1-2	3.4	21.4	10.5	.0	.0	.0	35.3	
3-4	.0	8.9	23.3	4.1	.0	.0	36.3	
5-6	.0	1.0	7.5	1.4	.0	.0	9.9	
7	.0	.3	4.6	1.1	.0	.0	6.1	
8-9	.0	.0	.3	1.2	.0	.0	1.4	
10-11	.0	.0	.5	1.2	.0	.0	1.7	
12	.0	.0	.0	.8	.0	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								249
TOT PCT	8.8	34.6	46.7	9.9	.0	.0	100.0	

PERIOD: (OVER-ALL) 1960-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	8.9	12.3	5.8	2.3	1.4	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	4
6-7	.0	1.2	7.5	10.9	9.6	3.8	3.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	6
8-9	.0	1.1	2.5	4.1	.6	3.5	1.0	.3	2.3	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	47	7
10-11	.0	.0	.8	.0	.5	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
12-13	.0	.0	1.4	.5	.4	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	9	6
>13	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	1.0	1.2	.6	2.2	.3	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	4
TOTAL																				300	5
PCT	2.2	12.4	25.1	23.6	14.0	9.8	7.3	.3	3.6	.4	.8	.0	.5	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1903-1978
(OVER-ALL) 1866-1978

AREA 0009 ISLE WALLIS
12.8S 176.2W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	2	.3
89/90	2.0	4.2	1.7	1.7	.0	.0	.0	.0	.0	.0	1.3	.0	7	.9
87/88	6.1	4.2	5.2	12.1	8.7	4.2	8.8	.0	.0	1.4	5.0	2.0	32	4.5
85/86	28.6	33.8	27.6	39.7	26.1	12.7	5.9	4.6	10.2	5.4	10.0	24.0	133	18.6
83/84	53.1	39.4	55.2	32.8	43.5	49.3	38.2	24.6	28.8	33.8	50.0	36.0	289	40.4
81/82	6.1	12.7	8.6	12.1	17.4	32.4	35.3	56.9	42.4	49.9	28.8	34.0	204	28.5
79/80	2.0	4.2	1.7	1.7	4.3	1.4	11.8	13.8	16.9	12.2	3.8	2.0	45	6.3
77/78	.0	1.4	.0	.0	.0	.0	.0	.0	1.7	1.4	.0	.0	3	.4
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	49	71	58	58	46	71	34	65	59	74	80	50	715	100.0
MEAN	84.2	84.1	84.2	84.6	83.9	83.3	82.6	81.9	82.0	82.2	83.3	83.3	83.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1008		1008		1007	1009	1009	1013	1008	52
FEB	1011		1008		1009		1008		1010	82
MAR	1009		1008		1008		1010	1011	1009	59
APR	1010		1010	1012	1010	1014	1010		1010	59
MAY	1010		1010		1012		1010		1010	38
JUN	1011		1011	1011	1011		1012		1011	102
JUL	1012		1010		1011				1011	51
AUG	1012		1011	1012	1013		1012		1012	91
SEP	1011		1012		1011		1012		1011	69
OCT	1011		1009	1010	1011		1011		1011	74
NOV	1009	1009	1009		1010		1009	1011	1009	89
DEC	1008	1006	1007	1008	1009	1006	1008	1006	1008	50
ANN	1010	1008	1009	1011	1010	1010	1010	1010	1010	812
OBS	360	2	122	6	221	3	92	6		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1003	1003	1004	1006	1008	1010	1013	1016	1017
FEB	1000	1000	1002	1007	1009	1012	1018	1018	1019
MAR	999	999	1002	1008	1010	1010	1011	1015	1016
APR	1007	1007	1007	1009	1010	1011	1012	1013	1014
MAY	1008	1008	1008	1009	1011	1012	1013	1016	1017
JUN	1007	1007	1008	1010	1011	1012	1014	1014	1015
JUL	1007	1007	1009	1010	1011	1012	1013	1014	1015
AUG	1007	1007	1009	1011	1012	1013	1018	1022	1023
SEP	1002	1002	1008	1010	1011	1012	1015	1016	1017
OCT	1005	1005	1008	1009	1010	1012	1015	1016	1017
NOV	1004	1004	1006	1008	1009	1011	1013	1013	1014
DEC	1002	1002	1003	1006	1008	1009	1012	1012	1013

JANUARY

PERIOD: (PRIMARY) 1942-1978
(OVER-ALL) 1870-1978

AREA 0010 SAMOA ISLANDS
14.0S 170.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	7.1	.0	.0	.0	.0	.0	7.1	22.4	.0	.0	.0	.0	.0	.0	70.6
NE	.0	11.8	3.9	.0	.0	.0	.0	15.7	6.9	1.0	.0	.0	.0	.0	.0	76.5
E	.0	1.4	2.8	.0	.0	.0	.0	4.2	16.0	6.9	.0	.0	.0	.0	.0	72.9
SE	3.9	3.9	3.9	.0	.0	.0	.0	7.8	7.8	1.0	.0	.0	.0	.0	.0	83.3
S	.0	12.9	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0	.0	.0	87.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0	.0	75.0
NW	27.0	10.8	.0	.0	.0	.0	.0	37.8	8.1	.0	.0	.0	.0	.0	.0	54.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.7	5.9	2.2	.0	.0	.0	.0	11.0	11.0	2.2	.0	.0	.0	.0	.0	75.7
TOT OBS:	136															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.0	5.0	.0	.0	.0	.0	.0	10.0	12.5	.0	.0	.0	.0	.0	.0	77.5
06&09	3.7	3.7	.0	.0	.0	.0	.0	7.4	14.8	.0	.0	.0	.0	.0	.0	77.8
12&15	2.1	0.0	4.2	.0	.0	.0	.0	12.5	6.3	6.3	.0	.0	.0	.0	.0	75.0
18&21	4.5	9.1	4.5	.0	.0	.0	.0	13.6	13.6	.0	.0	.0	.0	.0	.0	72.7
TOT PCT	3.6	5.8	2.2	.0	.0	.0	.0	10.9	10.9	2.2	.0	.0	.0	.0	.0	75.9
TOT OBS:	137															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	5.5	3.6	3.3	.6	.0		15.2	13.8	18.0	3.8	18.5	.0	11.7	.0	23.9	.0
NE	1.7	10.6	9.7	1.1	.0	.0		23.0	11.0	30.0	34.6	13.9	100.0	16.7	45.8	15.9	.0
E	4.1	9.1	13.8	.0	.0	.0		27.0	11.0	19.5	30.8	18.5	.0	38.9	54.2	22.7	.0
SE	.9	8.8	5.9	.0	.0	.0		15.6	9.6	13.0	7.7	14.8	.0	20.0	.0	23.9	.0
S	1.5	1.2	2.0	.0	.0	.0		4.7	9.0	5.0	.0	9.3	.0	1.7	.0	4.5	100.0
SW	.0	2.1	.8	.0	.0	.0		2.9	8.3	6.5	3.8	.0	.0	2.2	.0	.0	.0
W	.6	.9	2.0	1.2	.0	.0		4.7	13.5	2.0	13.5	11.1	.0	4.4	.0	.0	.0
NW	.0	2.4	2.3	1.7	.0	.0		6.4	14.8	6.0	5.8	10.2	.0	4.4	.0	9.1	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.0	.0	3.7	.0	.0	.0	.0	.0
TOT OBS	19	67	66	12	1	0	165		11.3	50	13	27	1	45	6	22	1
TOT PCT	11.5	40.6	40.0	7.3	.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.2	6.5	2.3	2.1	.0		15.2	13.8	15.1	17.9	10.3	22.8
NE	5.2	14.2	3.3	.3	.0		23.0	11.0	31.0	17.0	20.1	15.2
E	6.2	18.0	2.7	.0	.0		27.0	11.0	21.8	17.9	40.7	21.7
SE	4.1	11.4	.2	.0	.0		15.6	9.6	11.9	14.3	17.6	22.8
S	1.5	3.2	.0	.0	.0		4.7	9.0	4.0	8.9	1.5	8.7
SW	1.5	1.4	.0	.0	.0		2.9	8.3	6.0	.0	2.0	.0
W	.9	2.6	1.2	.0	.0		4.7	13.5	4.4	10.7	3.9	.0
NW	1.2	2.7	1.8	.6	.0		6.4	14.8	6.0	9.8	3.9	8.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.0	.0	.0	3.6	.0	.0
TOT OBS	42	99	19	5	0	165		11.3	63	28	51	23
TOT PCT	25.5	60.0	11.5	3.0	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1942-1978
(OVER-ALL) 1870-1978

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	6.3	47.6	41.3	4.8	.0	.0	11.0	100.0	63
06&09	3.6	7.1	39.3	35.7	14.3	.0	.0	11.8	100.0	28
12&15	.0	19.6	33.3	41.2	5.9	.0	.0	10.6	100.0	51
18&21	.0	8.7	39.1	39.1	8.7	4.3	.0	13.3	100.0	23
TOT	1	18	67	66	12	1	0	11.3		165
PCT	.6	10.9	40.6	40.0	7.3	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	2.2	5.5	7.3		6.7
NE	4.9	2.4	7.5	2.9		5.0
E	4.6	4.0	10.4	6.4		5.0
SE	5.5	7.7	5.3	3.1		4.2
S	.0	2.2	3.1	1.5		5.5
SW	.0	.9	.9	.2		5.3
W	.9	.9	.9	.9		4.5
NW	.9	1.8	.9	3.3		5.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.9		8.0
TOT OBS	19	25	39	30	113	5.2
TOT PCT	16.8	22.1	34.5	26.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	1.3	4.6	1.3	.7	.0	.0	.0	.0	7.1	
NE	.0	.0	1.3	1.3	2.0	3.1	.0	.0	.0	.0	10.0	
E	.9	.0	.0	5.3	1.5	3.1	.0	.0	.0	.0	14.6	
SE	.0	.0	.0	3.3	1.1	1.1	.0	.0	.0	.0	16.2	
S	.0	.0	.0	.0	2.2	.9	.0	.0	.0	.0	3.8	
SW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.8	
W	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	1.8	
NW	.0	.0	.0	1.3	.4	.0	.0	.0	.0	.0	5.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
TOT OBS	1	0	3	19	10	11	0	0	0	0	69	113
TOT PCT	.9	.0	2.7	16.8	8.8	9.7	.0	.0	.0	.0	61.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
* OR >1000	15.8	18.4	18.4	18.4	18.4	18.4	18.4	18.4
* OR >600	25.4	32.5	34.2	35.1	35.1	35.1	35.1	35.1
* OR >300	25.4	34.2	36.8	37.7	37.7	37.7	37.7	37.7
* OR >150	25.4	34.2	36.8	37.7	37.7	37.7	37.7	37.7
* OR > 0	25.4	35.1	37.7	38.6	38.6	38.6	38.6	38.6
TOTAL	29	40	43	44	44	44	44	44

TOTAL NUMBER OF OBS: 114 PCT FREQ NH <5/8: 61.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.6	12.0	19.7	20.5	6.0	12.0	12.0	3.4	12.0	.0	117

PERIOD: (PRIMARY) 1942-1978
(OVER-ALL) 1870-1978

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
2<5	PCP	.0	1.5	.0	.0	.0	.0	.0	1.5	.0	.0	2.9	
	NO PCP	.6	.9	.0	.7	.0	.0	.0	.0	.0	.0	2.2	
	TOT %	.6	2.4	.0	.7	.0	.0	.0	1.5	.0	.0	5.1	
5<10	PCP	1.1	.4	.0	1.5	.0	.0	.4	1.1	.0	.0	4.4	
	NO PCP	2.4	.2	1.3	2.2	.0	.7	.7	1.3	.0	.0	8.8	
	TOT %	3.5	.6	1.3	3.7	.0	.7	1.1	2.4	.0	.0	13.2	
10+	PCP	.0	1.1	1.1	.0	.7	.0	.0	.0	.0	.0	2.9	
	NO PCP	11.6	14.7	24.1	14.3	5.0	2.0	2.6	2.9	.0	.7	77.9	
	TOT %	11.6	15.8	25.2	14.3	5.7	2.0	2.6	2.9	.0	.7	80.9	
	TOT OBS												136
	TOT PCT	15.6	18.8	26.5	18.8	5.7	2.8	4.4	6.8	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.7	.0	.0		.7	
	TOT %	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.6	.9	.0	.7	.0	.0	.0	.7	.0		2.9	
	11-21	.0	.7	.0	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	.7	.0	.0	.0	.0	.0	.7	.0		1.5	
	TOT %	.6	2.4	.0	.7	.0	.0	.0	1.5	.0	.0	5.1	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.6	1.5	.0	.7	.0	.7	.0		3.7	
	11-21	.6	.0	.7	2.2	.0	.0	1.1	.6	.0		5.1	
	22+	2.9	.4	.0	.0	.0	.0	.0	1.1	.0		4.4	
	TOT %	3.5	.6	1.3	3.7	.0	.7	1.1	2.4	.0	.0	13.2	
10+	0-3	2.6	2.0	3.5	1.1	1.8	.0	.7	.0	.0	.7	12.5	
	4-10	4.8	7.0	7.2	8.3	1.5	1.1	1.1	.7	.0		31.6	
	11-21	3.1	6.6	14.5	5.0	2.4	.9	.0	2.0	.0		34.6	
	22+	1.1	.2	.0	.0	.0	.0	.7	.2	.0		2.2	
	TOT %	11.6	15.8	25.2	14.3	5.7	2.0	2.6	2.9	.0	.7	80.9	
	TOT OBS												136
	TOT PCT	15.6	18.8	26.5	18.8	5.7	2.8	4.4	6.8	.0	.7	100.0	

JANUARY

PERIOD: (PRIMARY) 1942-1978
(OVER-ALL) 1870-1978

AREA 0010 SAMOA ISLANDS
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.2	16.1	16.1	.0	.0	.0	.0	.0	35.5	64.5	31
06&09	.0	.0	.0	18.5	3.7	14.8	.0	.0	.0	.0	37.0	63.0	27
12&15	.0	.0	2.8	8.3	8.3	13.9	.0	.0	.0	.0	33.3	66.7	36
18&21	4.8	.0	4.8	28.6	4.8	9.5	.0	.0	.0	.0	52.4	47.6	21
TOT	1	0	3	19	10	11	0	0	0	0	44	71	115
PCT	.9	.0	2.6	16.5	8.7	9.6	.0	.0	.0	.0	38.3	61.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	10.0	5.0	85.0	40
06&09	.0	.0	3.7	3.7	7.4	85.2	27
12&15	.0	.0	.0	2.1	14.6	83.3	48
18&21	.0	.0	.0	4.5	31.8	63.6	22
TOT	0	0	1	7	18	111	137
PCT	.0	.0	.7	5.1	13.1	81.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <3OYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.3	23.3	16.7	60.0	30
06&09	.0	.0	18.5	18.5	63.0	27
12&15	.0	2.8	11.1	22.2	66.7	36
18&21	4.8	9.5	38.1	14.3	47.6	21
TOT	1	4	24	21	69	114
PCT	.9	3.5	21.1	18.4	60.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.5	.8	.0	.0	3	2.3
85/89	.0	.0	.0	.8	1.5	7.6	2.3	.0	16	12.2
80/84	.0	.0	.0	.0	1.5	25.2	40.5	7.6	98	74.8
75/79	.0	.0	.0	.0	.0	1.5	4.6	4.6	14	10.7
TOTAL	0	0	0	1	6	46	62	16	131	100.0
PCT	.0	.0	.0	.8	4.6	35.1	47.3	12.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.8	.0	1.5	.0	.0	.0	.0	.0	.0
2.1	2.9	1.5	3.2	1.3	.0	.0	1.1	.0	.0
12.8	9.9	21.9	13.0	4.0	2.9	3.4	6.1	.0	.8
3.6	3.2	1.3	1.5	.0	.0	.8	.2	.0	.0
18.5	16.8	24.8	19.3	5.3	2.9	4.2	7.4	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	92	91	89	83	77	76	76	83.7	66
06&09	86	85	85	82	78	77	77	82.1	28
12&15	86	85	84	81	79	77	77	81.5	51
18&21	84	83	83	82	78	76	76	81.2	23
TOT	92	91	87	82	78	76	76	82.4	168

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.7	10.8	45.9	32.4	8.1	78	37
06&09	.0	.0	3.6	35.7	42.9	17.9	82	28
12&15	.0	.0	2.3	27.3	61.4	9.1	82	44
18&21	.0	.0	.0	30.4	52.2	17.4	83	23
TOT	0	1	6	46	63	16	81	132

JANUARY

PERIOD: (PRIMARY) 1962-1978
(OVER-ALL) 1870-1978

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.8	1	.0	.8
7/8	.0	.0	.0	.0	.8	1	.0	.8
6	.0	.8	.8	.0	.0	2	.0	1.5
4	.0	.0	1.5	.0	2.3	5	.0	3.8
3	.0	.0	.8	1.5	.0	3	.0	2.3
2	.0	.0	2.3	3.8	.0	8	.0	6.0
1	.0	.0	5.3	3.8	.0	12	.0	9.0
0	.0	.0	6.0	2.3	.0	11	.0	8.3
-1	.0	.0	6.0	.0	.0	8	.0	6.0
-2	.0	.8	18.0	.0	.0	25	.0	18.8
-3	.0	1.5	12.8	.8	.0	20	.0	15.0
-4	.0	1.5	8.3	.0	.0	13	.0	9.8
-5	.8	4.5	5.3	.0	.0	14	.0	10.5
-6	.0	4.5	.8	.0	.0	7	.0	5.3
-7/-8	.0	1.5	.8	.0	.0	3	.0	2.3
TOTAL	1	20	91	16	5	133	0	133
PCT	.8	15.0	68.4	12.0	3.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.9	.0	.0	.0	.0	2.0
1-2	2.3	2.8	.0	.0	.0	.0	5.1
3-4	.0	.0	2.8	.0	.0	.0	2.8
5-6	.0	.0	.0	.9	.0	.0	.9
7	.0	.0	.0	2.6	.0	.0	2.6
8-9	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.9	1.1	.0	.0	2.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.4	3.7	3.7	6.3	.0	.0	17.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.3	.0	.0	.0	.0	1.4
1-2	.0	5.4	1.1	.0	.0	.0	6.5
3-4	.0	2.3	2.8	.0	.0	.0	5.1
5-6	.0	1.1	1.1	1.4	.0	.0	3.7
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	1.1	.0	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	9.1	6.5	2.0	.0	.0	18.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	.0	.0	.0	.0	1.1
1-2	1.1	3.1	3.1	.0	.0	.0	7.4
3-4	.0	3.1	7.1	.0	.0	.0	10.2
5-6	.0	.0	4.3	.0	.0	.0	4.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	3.1	.0	.0	.0	3.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	6.3	17.6	.0	.0	.0	26.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	.0	.0	.0	.0	.0	1.4
1-2	.0	8.0	1.4	.0	.0	.0	9.4
3-4	.0	.3	2.6	.0	.0	.0	2.8
5-6	.0	2.3	2.6	.0	.0	.0	4.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	10.5	6.5	.0	.0	.0	18.5

PERIOD: (OVER-ALL) 1963-1978

JANUARY

AREA 0010 SAMOA ISLANDS
14.0S 170.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	.0	.0	.0	.0	.0	2.0
1-2	.0	1.1	2.0	.0	.0	.0	3.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	1.1	2.0	.0	.0	.0	5.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.3	.0	.0	.0	.3
3-4	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.3	.0	.0	.0	1.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	.0	.0	.0	.0	1.1
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	1.1	.0	.0	1.1
5-6	.0	1.1	.0	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	1.1	.0	2.3	.0	.0	4.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	2.3	.0	.0	.0	.0	2.3	
3-4	.0	.0	1.7	.0	.0	.0	1.7	
5-6	.0	1.1	.0	.0	.0	.0	1.1	
7	.0	.0	.0	1.7	.0	.0	1.7	
8-9	.0	.0	.0	.3	.0	.0	.3	
10-11	.0	.0	.3	.0	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.4	2.0	2.0	.0	.0	7.4	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.0	1.1	.0	.0	.0	.0	10.1	
1-2	4.5	22.5	7.9	.0	.0	.0	34.8	
3-4	.0	6.7	16.9	1.1	.0	.0	24.7	
5-6	.0	5.6	7.9	2.2	.0	.0	15.7	
7	.0	.0	.0	4.5	.0	.0	4.5	
8-9	.0	.0	3.4	2.2	.0	.0	5.6	
10-11	.0	.0	2.2	1.1	.0	.0	3.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.5	36.0	38.2	12.4	.0	.0	100.0	89

PERIOD: (OVER-ALL) 1950-1978

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	5.5	11.8	5.5	1.8	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	4
6-7	.0	4.5	3.6	10.9	4.5	3.6	3.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
8-9	.0	1.8	2.7	3.6	.9	3.6	.9	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	7
10-11	.0	.0	1.8	.0	.9	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	1.8	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
>13	.0	.0	.0	.9	2.7	.9	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	7	11
INDET	1.8	1.8	1.8	2.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	3
TOTAL	4	15	26	26	15	12	5	3	2	0	2	0	0	0	0	0	0	0	0	110	5
PCT	3.6	13.6	23.6	23.6	13.6	10.9	4.5	2.7	1.8	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1957-1978
(OVER-ALL) 1872-1978

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	15.9	.0	.0	.0	.0	.0	.0	84.1
NE	4.3	12.0	.0	.0	.0	.0	.0	16.3	1.1	4.3	.0	.0	.0	.0	.0	78.3
E	.0	10.0	.0	.0	.0	.0	.0	10.0	2.7	.0	.0	.0	.0	.0	.0	87.3
SE	.0	1.7	.0	.0	.0	.0	.0	1.7	6.9	.0	3.4	.0	.0	.0	.0	88.0
S	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	80.0
SW	.0	18.2	.0	.0	.0	.0	.0	18.2	18.2	.0	.0	.0	.0	.0	.0	63.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	5.0	15.0	.0	.0	.0	.0	.0	20.0	1.3	5.0	.0	.0	.0	.0	.0	73.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.0	7.3	.0	.0	.0	.0	.0	9.3	4.7	1.3	.7	.0	.0	.0	.0	84.0
TOT OBS:	150															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	10.3	.0	.0	.0	.0	.0	10.3	.0	.0	.0	.0	.0	.0	.0	89.7
06&09	5.7	5.7	.0	.0	.0	.0	.0	11.4	5.7	.0	.0	.0	.0	.0	.0	82.9
12&15	1.7	5.2	.0	.0	.0	.0	.0	6.9	6.9	3.4	1.7	.0	.0	.0	.0	81.0
18&21	.0	8.0	.0	.0	.0	.0	.0	8.0	4.0	.0	.0	.0	.0	.0	.0	88.0
TOT PCT	1.9	7.0	.0	.0	.0	.0	.0	8.9	4.9	1.3	.6	.0	.0	.0	.0	84.7
TOT OBS:	157															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	3.4	5.0	1.7	.0	.0		11.2	13.7	12.3	.0	8.3	100.0	10.1	.0	12.5	.0
NE	1.3	9.2	5.9	.6	.0	.0		17.0	9.8	26.4	.0	15.9	.0	15.4	.0	9.4	.0
E	.0	16.8	8.3	.0	.0	.0		25.1	9.6	19.3	33.3	23.5	.0	31.3	.0	28.1	58.3
SE	2.9	7.3	9.2	.0	.0	.0		19.4	9.7	17.5	66.7	22.0	.0	19.2	100.0	4.2	8.3
S	.0	2.3	.6	.0	.0	.0		2.9	9.0	1.9	.0	3.0	.0	3.8	.0	4.2	.0
SW	.0	1.4	1.1	.6	.0	.0		3.2	14.6	2.4	.0	.8	.0	3.8	.0	8.3	.0
W	.0	2.9	3.4	.0	.0	.0		6.3	10.7	6.1	.0	6.8	.0	3.8	.0	14.6	.0
NW	.6	3.7	7.8	.6	.6	.0		13.2	14.9	14.2	.0	19.7	.0	8.7	.0	14.6	33.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	.0	.0	.0	.0	3.8	.0	4.2	.0
TOT OBS	13	82	72	6	1	0	174		10.9	53	3	33	2	52	4	24	3
TOT PCT	7.5	47.1	41.4	3.4	.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	5.0	3.4	.6	.0		11.2	13.7	11.6	13.6	9.4	11.1
NE	5.3	10.5	1.1	.0	.0		17.0	9.8	25.0	15.9	14.3	8.3
E	4.7	20.4	.0	.0	.0		25.1	9.6	20.1	22.1	29.0	31.5
SE	6.8	12.1	.6	.0	.0		19.4	9.7	20.1	20.7	25.0	4.6
S	1.1	1.1	.6	.0	.0		2.9	9.0	1.8	2.9	3.6	3.7
SW	.1	1.9	.6	.6	.0		3.2	14.6	2.2	.7	3.6	7.4
W	2.0	3.4	.9	.0	.0		6.3	10.7	5.8	6.4	3.6	13.0
NW	1.9	6.5	4.3	.0	.6		13.2	14.9	13.4	18.6	8.0	16.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	.0	.0	3.6	3.7
TOT OBS	45	106	20	2	1	174		10.9	56	35	56	27
TOT PCT	25.9	60.9	11.5	1.1	.6		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1957-1976
(OVER-ALL) 1872-1976

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00-03	.0	10.7	46.4	39.3	3.6	.0	.0	10.3	100.0	56
06-09	.0	2.9	37.1	54.3	5.7	.0	.0	12.5	100.0	35
12-15	3.6	1.8	51.8	41.1	1.8	.0	.0	10.4	100.0	56
18-21	3.7	7.4	51.9	29.6	3.7	3.7	.0	11.0	100.0	27
TOT	3	10	82	72	6	1	0	10.9		174
PCT	1.7	5.7	47.1	41.4	3.4	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.4	3.9	3.9		6.2
NE	1.4	3.6	7.3	2.5		5.4
E	5.2	5.5	11.6	2.5		4.7
SE	3.4	6.6	7.1	1.6		4.3
S	.0	.7	2.1	.7		5.8
SW	.0	1.6	1.6	.7		5.6
W	.7	1.8	3.0	2.3		5.7
NW	.0	.9	6.8	6.4		6.6
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	1.4	.0		4.6
TOT OBS	17	31	63	29	140	5.3
TOT PCT	12.1	22.1	45.0	20.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.7	.5	.0	.0	.0	.0	8.8	
NE	.2	.0	.7	.4	2.9	.7	.0	.0	.0	.0	10.0	
E	.5	.0	.0	1.1	2.5	2.0	.0	.0	.0	.0	18.8	
SE	.0	.0	.0	1.4	1.8	.2	.0	.0	.0	.0	15.4	
S	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	2.1	
SW	.0	.0	.0	.0	.7	.6	.0	.0	.0	.0	3.2	
W	.0	.0	.0	.7	1.6	.0	.0	.0	.0	.0	5.5	
NW	.0	.7	.7	1.4	2.7	1.6	.0	.0	.0	.0	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	1.4	
TOT OBS	2	1	2	7	18	8	0	1	0	0	101	140
TOT PCT	1.4	.7	1.4	5.0	12.9	5.7	.0	.7	.0	.0	72.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5/16	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >2000	6.2	6.8	6.8	6.8	6.8	6.8	6.8	6.8
= OR >1000	17.1	19.9	19.9	19.9	19.9	19.9	19.9	19.9
= OR >600	20.5	24.7	24.7	24.7	24.7	24.7	24.7	24.7
= OR >300	21.2	26.0	26.0	26.0	26.0	26.0	26.0	26.0
= OR >150	21.2	26.0	26.7	26.7	26.7	26.7	26.7	26.7
= OR > 0	21.2	26.7	27.4	27.4	28.1	28.1	28.1	28.1
TOTAL	31	39	40	40	41	41	41	41

TOTAL NUMBER OF OBS: 146

PCT FREQ NH <5/8: 71.9

TABLE 7A

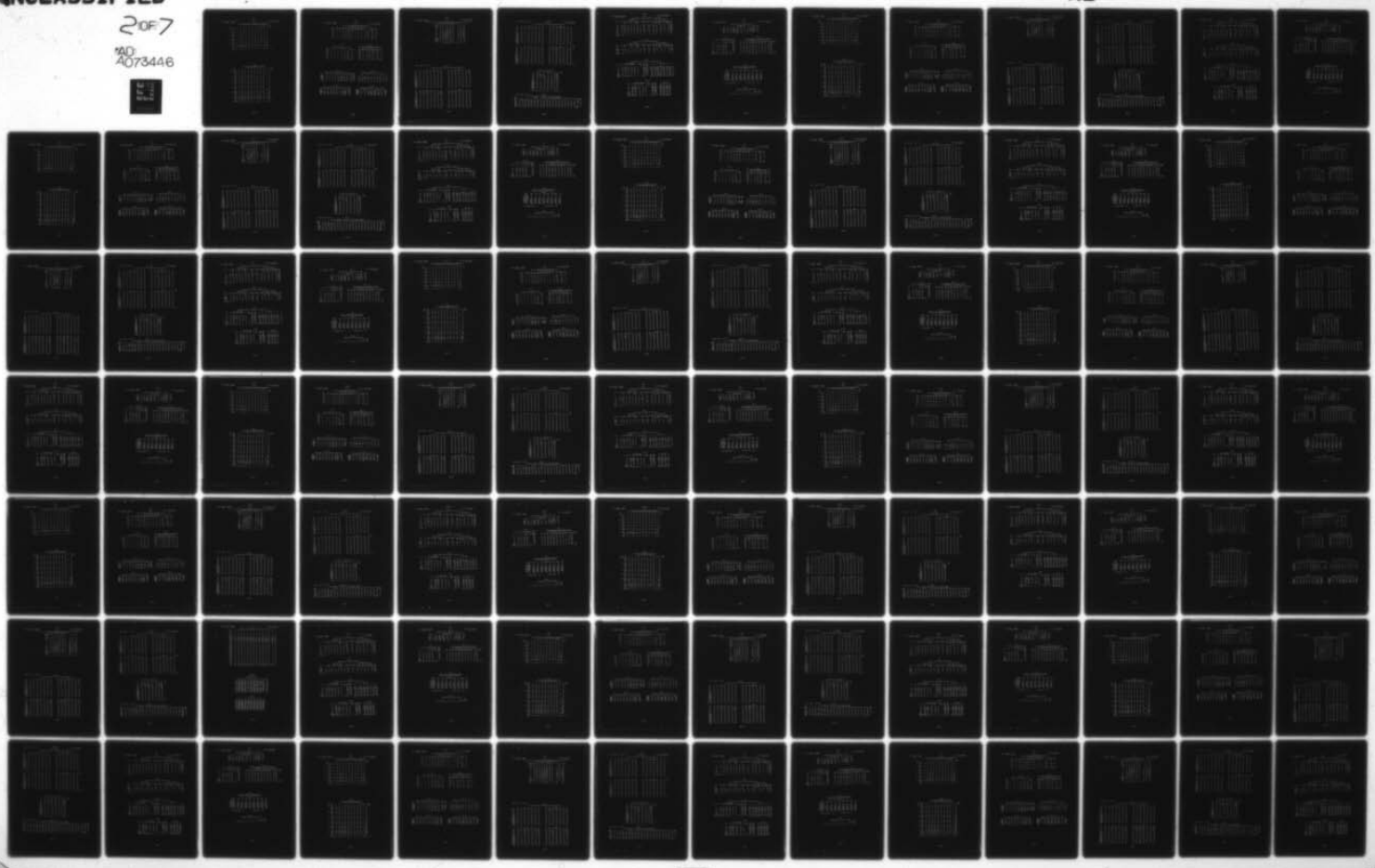
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

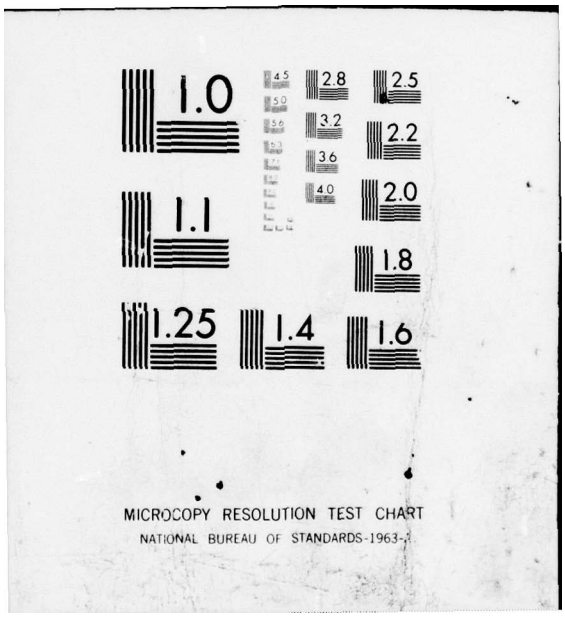
0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.0	10.7	18.7	21.3	16.0	9.3	9.3	4.0	6.0	.7	150

AD-A073 446 NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO) SELECTED--ETC(U)
SEP 79

UNCLASSIFIED NL

2 OF 7
AD A073446




1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6
6.3
7.1
8.0
9.0
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

FEBRUARY

PERIOD: (PRIMARY) 1957-1978
(OVER-ALL) 1872-1978

TABLE 8

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
5<10	PCP	.0	.3	.8	.2	.7	.7	.0	1.3	.0	.0	4.0	
	NO PCP	.0	.0	.5	1.5	.7	.0	.7	.7	.0	.0	4.0	
	TOT %	.0	.3	1.3	1.7	1.3	.7	.7	2.0	.0	.0	8.0	
10+	PCP	.0	2.0	1.2	.2	.0	.0	.0	.7	.0	.0	4.0	
	NO PCP	10.5	12.8	22.0	17.7	2.0	3.0	6.7	10.0	.0	2.0	86.7	
	TOT %	10.5	14.8	23.2	17.8	2.0	3.0	6.7	10.7	.0	2.0	90.7	
	TOT OBS												150
	TOT PCT	10.5	15.3	25.0	19.5	3.3	3.7	7.3	13.3	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.5	.0	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.7	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	1.3	1.0	.7	.0	.0	.0	.0		3.3	
	11-21	.0	.0	.0	.7	.7	.7	.7	1.3	.0		4.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.7	.0		.7	
	TOT %	.0	.3	1.3	1.7	1.3	.7	.7	2.0	.0	.0	8.0	
10+	0-3	.5	1.5	.0	2.7	.0	.0	.0	.7	.0	2.0	7.3	
	4-10	2.7	7.3	14.2	6.5	2.0	1.7	3.3	3.7	.0		41.3	
	11-21	5.3	5.3	9.0	8.7	.0	.7	3.3	5.7	.0		38.0	
	22+	2.0	.7	.0	.0	.0	.7	.0	.7	.0		4.0	
	TOT %	10.5	14.8	23.2	17.8	2.0	3.0	6.7	10.7	.0	2.0	90.7	
	TOT OBS												150
	TOT PCT	10.5	15.3	25.0	19.5	3.3	3.7	7.3	13.3	.0	2.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1957-1978
(OVER-ALL) 1872-1978

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	2.6	.0	5.3	10.5	15.8	.0	.0	.0	.0	34.2	65.8	38
06&09	.0	.0	.0	8.6	17.1	5.7	.0	.0	.0	.0	31.4	68.6	35
12&15	4.1	.0	2.0	2.0	14.3	2.0	.0	2.0	.0	.0	26.5	73.5	49
18&21	.0	.0	4.0	4.0	8.0	.0	.0	.0	.0	.0	16.0	84.0	25
TOT	2	1	2	7	19	9	0	1	0	0	41	106	147
PCT	1.4	.7	1.4	4.8	12.9	6.1	.0	.7	.0	.0	27.9	72.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	2.6	5.1	92.3	39
06&09	.0	.0	.0	.0	2.9	97.1	35
12&15	.0	1.7	.0	.0	10.3	87.9	58
18&21	.0	.0	.0	.0	12.0	88.0	25
TOT	0	1	0	1	12	143	157
PCT	.0	.6	.0	.6	7.6	91.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.6	7.9	26.3	65.8	38
06&09	.0	.0	8.6	22.9	68.6	35
12&15	4.2	6.3	8.3	18.8	72.9	48
18&21	.0	4.0	8.0	8.0	84.0	25
TOT	2	5	12	29	105	146
PCT	1.4	3.4	8.2	19.9	71.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.7	.7	.7	.0	.0	3	2.0
85/89	.0	.0	.0	.7	1.3	4.6	3.3	1.3	17	11.2
80/84	.0	.0	.0	.0	2.0	28.3	43.4	4.6	119	78.3
75/79	.0	.0	.0	.0	.0	1.3	3.9	2.6	12	7.9
70/74	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	2	6	53	77	14	152	100.0
PCT	.0	.0	.0	1.3	3.9	34.9	50.7	9.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.7	.5	.2	.0	.0	.0	.0	.0	.0
.0	.7	3.5	3.1	.7	.2	1.6	1.5	.0	.0
9.2	11.5	20.6	16.9	1.3	2.1	5.1	9.5	.0	2.0
.5	1.5	1.2	.8	.0	.0	.5	3.5	.0	.0
.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
10.4	14.3	25.7	21.1	2.0	3.0	7.2	14.5	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	92	91	90	84	81	79	79	84.6	56
06&09	85	84	84	82	79	77	77	82.0	37
12&15	84	83	83	82	77	71	71	81.4	62
18&21	86	85	84	82	79	77	77	81.7	28
TOT	92	90	87	82	79	77	71	82.5	183

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.3	7.9	44.7	36.8	5.3	77	38
06&09	.0	.0	2.7	29.7	59.5	8.1	82	37
12&15	.0	.0	1.7	28.8	59.3	10.2	81	59
18&21	.0	.0	3.7	37.0	44.4	14.8	81	27
TOT	0	2	6	55	83	15	81	161

FEBRUARY

PERIOD: (PRIMARY) 1957-1978
(OVER-ALL) 1872-1978

AREA 0010 SAMOA ISLANDS
14.05 170.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OR FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.7	1	.0	.7
7/8	.0	.0	.0	.7	.0	.7	2	.0	1.4
6	.0	.0	.0	.7	.0	.7	2	.0	1.4
5	.0	.0	.0	.0	1.4	1.4	4	.0	2.7
2	.0	.0	.0	2.0	1.4	.0	5	.0	3.4
1	.0	.0	1.4	1.4	2.7	.0	8	.0	5.4
0	.0	.0	.7	3.4	3.4	.0	11	.0	7.5
-1	.0	.0	.0	12.9	.7	.0	20	.7	12.9
-2	.0	.0	.7	17.7	.0	.0	27	.0	18.4
-3	.0	.0	4.8	13.6	.0	.0	27	.0	18.4
-4	.0	.0	2.7	10.2	.0	.0	19	.0	12.9
-5	.0	.0	1.4	4.1	.7	.0	9	.0	6.1
-6	.0	.0	2.7	2.7	.0	.0	8	.0	5.4
-7/-8	.0	.0	.7	.0	.0	.0	1	.0	.7
-9/-10	.0	.0	1.4	.0	.0	.0	2	.0	1.4
-11/-13	.7	.0	.0	.0	.0	.0	1	.0	.7
TOTAL	1	0	24	102	15	5	147	1	146
PCT	.7	.0	16.3	69.4	10.2	3.4	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.7	1.9	.7	.0	.0	.0	3.2
3-4	.0	.0	3.7	.0	.0	.0	3.7
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	.0	.9	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.9	6.0	1.9	.0	.0	10.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.0	.0	.0	.0	.0	3.0
1-2	.2	3.7	1.2	.0	.0	.0	5.1
3-4	.0	3.7	3.2	.0	.0	.0	6.9
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	10.4	6.5	.0	.0	.0	17.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.9	.0	.0	.0	.0	3.9
1-2	.0	6.5	1.9	.0	.0	.0	8.3
3-4	.0	3.5	6.5	.0	.0	.0	10.0
5-6	.0	1.9	.0	.0	.0	.0	1.9
7	.0	.9	.0	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.7	.0	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	16.7	9.0	.0	.0	.0	25.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3
1-2	2.8	3.7	1.9	.0	.0	.0	8.3
3-4	.0	1.2	5.1	.0	.0	.0	6.3
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	7.2	8.1	.0	.0	.0	18.1

PERIOD: (OVER-ALL) 1963-1978

FEBRUARY

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.0	.0	.0	.0	2.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.9	.0	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	.0	.0	.0	.0	3.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	1.2	.9	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.9	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	.9	.9	.0	.0	3.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	2.1	.9	.0	.0	.0	3.0
3-4	.0	.7	.9	.0	.0	.0	1.6
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	2.5	.0	.0	.0	6.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.0	.0	.0	.0	.9
1-2	.0	2.3	1.9	.0	.0	.0	4.2
3-4	.0	1.9	1.9	.0	.0	.0	3.7
5-6	.0	.9	1.2	.0	.0	.0	2.1
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.9	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.1	5.8	.9	.9	.0	13.7

HGT	TOTAL PCT
<1	.9
1-2	4.2
3-4	3.7
5-6	2.1
7	.9
8-9	.9
10-11	.0
12	.0
13-16	.9
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	9.9	.0	.0	.0	.0	13.5	
1-2	5.4	22.5	8.1	.0	.0	.0	36.0	
3-4	.0	11.7	21.6	.0	.0	.0	33.3	
5-6	.0	3.6	4.5	.0	.0	.0	8.1	
7	.0	.9	1.8	.9	.0	.0	3.6	
8-9	.0	.0	.9	.9	.0	.0	1.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.9	.9	.0	.0	1.8	
13-16	.0	.0	.0	.9	.9	.0	1.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.0	48.6	37.8	3.6	.9	.0	100.0	111

PERIOD: (OVER-ALL) 1958-1978

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	10.3	16.9	5.1	2.2	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	3
6-7	.0	2.2	5.9	9.6	3.7	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
8-9	.7	.7	4.4	7.4	4.4	2.2	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
10-11	.0	.7	.0	.0	2.2	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
12-13	.0	.0	2.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
>13	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDET	.0	.0	2.2	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
TOTAL	3	19	43	37	20	6	3	1	4	0	0	0	0	0	0	0	0	0	0	136	5
PCT	2.2	14.0	31.6	27.2	14.7	4.4	2.2	.7	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1957-1977
(OVER-ALL) 1871-1977

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
N	2.2	2.2	.0	.0	.0	.0	.0	5.4	4.3	3.2	.0	.0	.0		.0		87.1
NE	2.9	1.0	.0	.0	.0	.0	.0	3.9	1.0	1.0	.0	.0	.0		.0		94.2
E	1.8	6.4	.0	.0	.0	.0	.0	8.2	5.8	7.0	.0	.0	.0		.0		78.9
SE	.0	1.3	5.3	.0	.0	.0	.0	6.6	6.6	5.3	.0	.0	.0		.0		81.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		100.0
W	.0	20.8	8.3	.0	.0	.0	.0	29.2	6.3	.0	.0	.0	.0		.0		64.6
NW	.0	3.0	.0	.0	.0	.0	.0	3.0	37.3	.0	.0	.0	.0		.0		59.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		100.0
TOT PCT	1.3	4.5	1.3	.0	.0	.0	.0	7.1	7.8	3.2	.0	.0	.0		.0		81.8
TOT OBS:	154																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
00&03	2.6	2.6	.0	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	.0		.0		89.5
06&09	.0	9.1	.0	.0	.0	.0	.0	9.1	12.1	3.0	.0	.0	.0		.0		75.8
12&15	1.7	1.7	3.4	.0	.0	.0	.0	6.9	8.6	6.9	.0	.0	.0		.0		77.6
18&21	.0	7.4	.0	.0	.0	.0	.0	7.4	3.7	.0	.0	.0	.0		.0		88.9
TOT PCT	1.3	4.5	1.3	.0	.0	.0	.0	7.1	7.7	3.2	.0	.0	.0		.0		82.1
TOT OBS:	156																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	6.5	5.6	.3	.0	.0		14.0	10.2	11.6	.0	9.2	23.0	16.7	33.3	16.0	.0
NE	1.8	11.3	4.7	.3	.0	.0		18.1	9.2	23.1	16.7	20.0	8.3	11.6	8.3	20.0	50.0
E	.0	17.5	10.7	.6	.0	.0		28.8	10.2	33.8	16.7	20.8	.0	36.6	12.5	22.0	.0
SE	.1	7.5	2.8	.7	.0	.0		11.2	10.4	13.4	.0	13.3	.0	8.8	4.2	14.0	.0
S	.4	2.5	.0	1.0	.0	.0		4.0	11.5	3.2	.0	2.5	.0	3.7	.0	10.0	.0
SW	.6	.1	.1	.0	.0	.0		.8	6.1	.0	.0	3.3	.0	.5	.0	1.0	.0
W	.6	2.8	4.4	.0	.0	.0		7.8	10.4	5.1	.0	8.3	33.3	8.3	.0	12.0	.0
NW	.0	4.2	4.9	1.7	.0	.0		10.9	14.2	6.0	66.7	19.2	.0	10.2	41.7	1.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	3.7	.0	3.3	33.3	3.7	.0	4.0	50.0
TOT OBS	17	93	59	8	0	0	177		10.1	54	3	30	3	54	6	25	2
TOT PCT	9.6	52.5	33.3	4.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.2	8.2	1.6	.0	.0		14.0	10.2	11.0	10.6	18.3	14.8
NE	4.4	13.0	.7	.0	.0		18.1	9.2	22.8	18.9	11.3	22.2
E	6.9	20.9	1.0	.0	.0		28.8	10.2	32.9	18.9	34.2	20.4
SE	3.8	5.9	1.3	.1	.0		11.2	10.4	12.7	12.1	8.3	13.0
S	1.6	1.4	.6	.4	.0		4.0	11.5	3.1	2.3	3.3	9.3
SW	.6	.1	.1	.0	.0		.8	6.1	.0	3.0	.4	.9
W	2.8	4.2	.7	.0	.0		7.8	10.4	4.8	10.6	7.5	11.1
NW	1.7	6.1	1.4	1.7	.0		10.9	14.2	9.2	17.4	13.3	.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	3.5	6.1	3.3	7.4
TOT OBS	54	106	13	4	0	177		10.1	57	33	60	27
TOT PCT	30.5	59.9	7.3	2.3	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1957-1977
(OVER-ALL) 1871-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.5	5.3	49.1	35.1	7.0	.0	.0	10.2	100.0	57
06&09	6.1	6.1	57.6	27.3	3.0	.0	.0	9.8	100.0	33
12&15	3.3	6.7	48.3	36.7	5.0	.0	.0	10.7	100.0	60
18&21	7.4	.0	63.0	29.6	.0	.0	.0	8.7	100.0	27
TOT	8	9	93	59	8	0	0	10.1		177
PCT	4.5	5.1	52.5	33.3	4.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.6	1.9	5.5	4.8		5.4
NE	2.3	5.3	7.7	1.6		4.8
E	5.5	10.4	7.9	3.9		4.3
SE	3.0	2.1	5.8	2.5		4.9
S	.7	1.2	2.5	.5		4.8
SW	.7	.4	.0	.0		2.6
W	.0	1.9	4.4	2.1		6.0
NW	.7	.7	5.6	3.0		6.2
VAR	.0	.0	.0	.0		.0
CALM	2.1	.0	.7	.0		2.7
TOT OBS	25	34	57	26	142	4.9
TOT PCT	17.6	23.9	40.1	18.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.4	2.1	.7	.0	.0	.0	.4	10.2	
NE	.0	.2	.2	.2	.4	.0	.0	.7	.0	.4	15.0	
E	.0	.5	.5	3.0	2.8	.5	.0	.0	.0	.0	20.2	
SE	.7	.0	.0	1.2	1.4	.2	.7	.0	.0	.0	9.2	
S	.0	.0	.0	.5	.0	.7	.0	.0	.0	.0	3.7	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
W	.7	.0	.0	.0	.0	.7	.7	.0	.0	.0	6.3	
NW	.0	.0	.7	1.4	3.2	.0	.0	.0	.0	.0	4.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
TOT OBS	2	1	2	11	14	4	2	1	0	1	104	142
TOT PCT	1.4	.7	1.4	7.7	9.9	2.8	1.4	.7	.0	.7	73.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF *SIMULTANEOUS OCCURRENCE* OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.7	.7	.7	.7	.7	.7	.7
* OR >5000	.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >3500	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
* OR >2000	3.5	4.9	5.6	5.6	5.6	5.6	5.6	5.6
* OR >1000	11.8	14.6	16.0	16.0	16.0	16.0	16.0	16.0
* OR >600	17.4	22.2	23.6	23.6	23.6	23.6	23.6	23.6
* OR >300	18.1	22.9	25.0	25.0	25.0	25.0	25.0	25.0
* OR >150	18.1	23.6	25.7	25.7	25.7	25.7	25.7	25.7
* OR > 0	18.8	24.3	27.1	27.1	27.1	27.1	27.1	27.1
TOTAL	27	35	39	39	39	39	39	39

TOTAL NUMBER OF OBS: 144 PCT FREQ NH <5/8: 72.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.1	14.4	21.9	21.2	12.3	6.2	6.2	3.4	11.0	1.4	146

MARCH

PERIOD: (PRIMARY) 1957-1977
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.6	.0	.0	.0	1.3	.0	.0	.0	1.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
	TOT %	.0	.0	.6	.0	.0	.0	1.3	.6	.0	.0	2.6	
5<10	PCP	.3	.5	.5	.0	.0	.0	.3	.3	.0	.0	1.9	
	NO PCP	1.1	2.1	.5	.6	.0	.0	.6	2.8	.0	.0	7.8	
	TOT %	1.5	2.6	1.0	.6	.0	.0	1.0	3.1	.0	.0	9.7	
10+	PCP	.5	.2	1.1	.8	.0	.0	.6	.0	.0	.0	3.2	
	NO PCP	13.1	14.0	25.0	10.9	4.5	1.0	4.9	7.1	.0	3.9	84.4	
	TOT %	13.6	14.1	26.1	11.7	4.5	1.0	5.5	7.1	.0	3.9	87.7	
	TOT OBS												154
	TOT PCT	15.1	16.7	27.8	12.3	4.5	1.0	7.8	10.9	.0	3.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.6	.0	.0	.0	1.3	.6	.0		2.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.6	.0	.0	.0	1.3	.6	.0	.0	2.6	
5<10	0-3	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
	4-10	.0	.8	.5	.6	.0	.0	.0	.6	.0		2.6	
	11-21	1.1	1.5	.5	.0	.0	.0	.3	1.1	.0		4.5	
	22+	.3	.3	.0	.0	.0	.0	.0	1.3	.0		1.9	
	TOT %	1.5	2.6	1.0	.6	.0	.0	1.0	3.1	.0	.0	9.7	
10+	0-3	1.8	1.5	.0	.2	.5	.6	.0	.0	.0	3.9	8.4	
	4-10	6.5	10.1	15.4	7.6	2.9	.2	2.6	4.1	.0		49.4	
	11-21	5.4	2.6	10.7	3.1	.0	.2	2.9	3.1	.0		27.9	
	22+	.0	.0	.0	.8	1.1	.0	.0	.0	.0		1.9	
	TOT %	13.6	14.1	26.1	11.7	4.5	1.0	5.5	7.1	.0	3.9	87.7	
	TOT OBS												154
	TOT PCT	15.1	16.7	27.8	12.3	4.5	1.0	7.8	10.9	.0	3.9	100.0	

PERIOD: (PRIMARY) 1957-1977
(OVER-ALL) 1871-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.6	2.6	2.6	5.3	7.9	2.6	.0	2.6	.0	.0	26.3	73.7	38
06&09	.0	.0	3.1	15.6	9.4	3.1	3.1	.0	.0	.0	34.4	65.6	32
12&15	4.0	.0	.0	4.0	14.0	4.0	2.0	.0	.0	2.0	30.0	70.0	50
18&21	.0	.0	.0	8.0	8.0	.0	.0	.0	.0	.0	16.0	84.0	25
TOT	3	1	2	11	15	4	2	1	0	1	40	105	145
PCT	2.1	.7	1.4	7.6	10.3	2.8	1.4	.7	.0	.7	27.6	72.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	2.6	10.5	86.8	38
06&09	.0	.0	.0	6.1	3.0	90.9	33
12&15	.0	.0	.0	1.7	12.1	86.2	58
18&21	.0	.0	.0	.0	11.1	88.9	27
TOT	0	0	0	4	15	137	156
PCT	.0	.0	.0	2.6	9.6	87.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	5.4	13.5	10.8	75.7	37
06&09	.0	3.1	21.9	12.5	65.6	32
12&15	4.0	4.0	8.0	22.0	70.0	50
18&21	.0	.0	8.0	8.0	84.0	25
TOT	2	5	18	21	105	144
PCT	1.4	3.5	12.5	14.6	72.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.7	.0	.0	.0	1	.7
85/89	.0	.0	.0	.0	4.3	7.2	2.2	.0	19	13.7
80/84	.0	.0	.0	.0	3.6	26.6	36.0	8.6	104	74.8
75/79	.0	.0	.0	.0	.0	.0	5.0	5.8	15	10.8
TOTAL	0	0	0	0	12	47	60	20	139	100.0
PCT	.0	.0	.0	.0	8.6	33.8	43.2	14.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.1	3.1	4.3	1.8	.7	.0	.7	.0	.0	.0
8.1	12.4	21.4	9.9	3.8	.4	7.2	9.5	.0	2.2
3.2	.4	3.1	1.1	.0	.0	.0	2.3	.0	.7
15.1	15.8	28.8	12.8	4.5	.4	7.9	11.9	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	89	84	79	75	75	83.8	58
06&09	92	91	86	83	76	75	75	82.1	31
12&15	84	83	83	82	79	77	77	81.6	59
18&21	88	87	84	82	77	76	76	81.6	27
TOT	92	89	87	82	77	75	75	82.4	175

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	18.9	43.2	29.7	8.1	77	37
06&09	.0	.0	14.3	35.7	25.0	25.0	81	28
12&15	.0	.0	2.0	31.4	54.9	11.8	82	51
18&21	.0	.0	.0	28.0	56.0	16.0	83	25
TOT	0	0	12	49	60	20	81	141

MARCH

PERIOD: (PRIMARY) 1957-1977
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
5	.0	.0	.7	.0	.0	1	.0	.7
4	.0	.0	.0	.7	.7	2	.0	1.4
3	.0	.0	.0	.0	.7	1	.0	.7
2	.0	.0	.7	1.4	1.4	5	.0	3.5
1	.0	.0	1.4	4.2	.7	9	.0	6.3
0	.0	.0	9.8	2.1	.0	17	.0	11.9
-1	.0	.0	8.4	2.8	.0	16	.0	11.2
-2	.0	3.5	19.6	.7	.0	34	.0	23.8
-3	.0	1.4	11.9	.0	.0	19	.0	13.3
-4	.0	4.9	9.1	.0	.0	20	.0	14.0
-5	.7	.7	3.5	.0	.0	7	.0	4.9
-6	.0	2.1	2.1	.0	.0	6	.0	4.2
-7/-8	1.4	2.1	.7	.0	.0	6	.0	4.2
TOTAL	3	21	97	17	5	143	0	143
PCT	2.1	14.7	67.8	11.9	3.5	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	2.9	1.2	.0	.0	.0	4.1
3-4	.9	.0	1.2	.0	.0	.0	2.1
5-6	1.2	.0	.0	.0	.0	.0	1.2
7	.0	.9	.0	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	4.7	2.4	.0	.0	.0	9.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.6	.0	.0	.0	.0	3.8
1-2	1.2	1.8	2.6	.0	.0	.0	5.6
3-4	.3	2.6	.0	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.3	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	7.4	2.9	.0	.0	.0	12.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.4	.0	.0	.0	.0	2.4
1-2	.0	14.1	4.4	.0	.0	.0	18.5
3-4	.0	7.4	5.9	.0	.0	.0	13.2
5-6	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.9	.0	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	24.7	13.5	.0	.0	.0	38.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.2	.0	.0	.0	1.2
1-2	.3	9.4	.0	.0	.0	.0	9.7
3-4	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	1.2	2.4	1.2	.0	.0	4.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	12.4	3.5	1.5	.0	.0	17.6

PERIOD: (OVER-ALL) 1964-1977

MARCH

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.9	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.1	.0	1.2	.0	.0	3.2	1.2	.3	.0	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.1	.0	2.1	.0	.0	5.0	1.2	.3	.0	.0	.0	.0	1.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	2.4	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	2.4	
3-4	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	2.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	.0	.0	2.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	2.4	.0	.0	.0	2.4	.0	5.0	3.5	1.2	.0	.0	9.7	96.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	8.1	1.2	.0	.0	.0	14.0	
1-2	3.5	30.2	8.1	.0	.0	.0	41.9	
3-4	2.3	14.0	9.3	1.2	.0	.0	26.7	
5-6	1.2	1.2	7.0	1.2	.0	.0	10.5	
7	.0	1.2	1.2	.0	.0	.0	2.3	
8-9	.0	1.2	1.2	1.2	.0	.0	3.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	1.2	.0	.0	1.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								86
TOT PCT	11.6	55.8	27.9	4.7	.0	.0	100.0	

PERIOD: (OVER-ALL) 1952-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	12.9	13.6	9.1	2.3	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	4
6-7	.0	1.5	5.3	9.1	4.5	3.8	2.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	6
8-9	.0	3.0	3.0	5.3	4.5	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
10-11	.0	.0	1.5	1.5	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
12-13	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
>13	.0	.0	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	0
TOTAL	9	23	32	34	17	8	5	0	3	1	0	0	0	0	0	0	0	0	0	132	5
PCT	6.8	17.4	24.2	25.8	12.9	6.1	3.8	.0	2.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1870-1977

AREA 0010 SAMOA ISLANDS
13.9S 170.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	7.7	.0	.0	.0	.0	.0	7.7	9.6	.0	.0	.0	.0		.0	82.7
NE	5.7	.0	.0	.0	.0	.0	.0	5.7	3.4	.0	.0	.0	.0		.0	90.9
E	2.6	4.2	1.1	.0	.0	.0	.0	5.9	2.9	.0	.0	.0	1.1		.0	86.1
SE	3.8	5.7	1.0	.0	.0	.0	.0	10.5	.0	1.0	.0	.0	1.0		.0	87.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0		.0	88.2
NW	.0	14.8	.0	.0	.0	.0	.0	14.8	14.8	.0	.0	.0	.0		.0	70.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0		.0	75.0
TOT PCT	3.8	3.2	.6	.0	.0	.0	.0	7.7	3.2	1.9	.0	.0	.6		.0	86.5
TOT OBS:	156															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	2.7	.0	.0	.0	.0	.0	2.7	2.7	.0	.0	.0	2.7		.0	91.9
06&09	9.4	.0	.0	.0	.0	.0	.0	9.4	.0	3.1	.0	.0	.0		.0	87.5
12&15	5.6	3.7	1.9	.0	.0	.0	.0	11.1	5.6	3.7	.0	.0	.0		.0	79.6
18&21	.0	5.4	.0	.0	.0	.0	.0	5.4	2.7	.0	.0	.0	.0		.0	91.9
TOT PCT	3.8	3.1	.6	.0	.0	.0	.0	7.5	3.1	1.9	.0	.0	.6		.0	86.9
TOT OBS:	160															

TABLE 3

PERCENTAGE FREQUENCY OR WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.7	4.0	1.2	.0	.0	.0		6.9	7.2	2.0	.0	8.6	15.0	6.8	16.7	12.9	.0
NE	1.3	10.4	5.2	.0	.0	.0		16.9	9.2	27.5	11.1	6.9	25.0	7.8	19.4	22.6	18.8
E	.0	20.2	19.7	1.1	.0	.0		41.0	11.5	36.5	44.4	31.9	50.0	52.1	33.3	34.7	59.4
SE	.5	7.7	9.8	1.1	.0	.0		19.0	12.1	14.0	44.4	23.3	10.0	16.7	30.6	20.2	9.4
S	.0	2.5	1.1	.0	.0	.0		3.6	7.3	4.0	.0	9.5	.0	4.2	.0	.0	.0
SW	.0	.8	.0	.0	.0	.0		.8	6.5	.0	.0	.9	.0	.5	.0	3.2	.0
W	1.6	3.4	.0	.0	.0	.0		5.0	5.6	2.0	.0	6.9	.0	9.4	.0	3.2	12.5
NW	.1	1.7	2.2	.0	.0	.0		4.1	12.1	10.0	.0	5.2	.0	2.6	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	4.0	.0	6.9	.0	.0	.0	3.2	.0
TOT OBS	15	96	74	4	0	0	189		10.2	50	9	29	5	48	9	31	8
TOT PCT	7.9	50.8	39.2	2.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	3.7	.0	.0	.0		6.9	7.2	1.7	9.6	8.3	10.3
NE	4.4	11.5	1.1	.0	.0		16.9	9.2	25.0	9.6	9.6	21.8
E	6.0	30.0	5.0	.0	.0		41.0	11.5	37.7	34.6	49.1	39.7
SE	2.8	12.8	3.4	.0	.0		19.0	12.1	18.6	21.3	18.9	17.9
S	2.1	1.5	.0	.0	.0		3.6	7.3	3.4	8.1	3.5	.0
SW	.7	.1	.0	.0	.0		.8	6.5	.0	.7	.4	2.6
W	3.0	2.0	.0	.0	.0		5.0	5.6	1.7	5.9	7.9	5.1
NW	1.2	1.3	1.6	.0	.0		4.1	12.1	8.5	4.4	2.2	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	3.4	5.9	.0	2.6
TOT OBS	49	119	21	0	0	189		10.2	59	34	57	39
TOT PCT	25.9	63.0	11.1	.0	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1870-1977

AREA 0010 SAMOA ISLANDS
13.9S 170.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.4	5.1	45.8	45.8	.0	.0	.0	9.8	100.0	59
06&09	5.9	11.8	35.3	41.2	5.9	.0	.0	10.2	100.0	34
12&15	.0	1.8	66.7	28.1	3.5	.0	.0	10.3	100.0	57
18&21	2.6	5.1	48.7	43.6	.0	.0	.0	10.5	100.0	39
TOT	5	10	96	74	4	0	0	10.2		189
PCT	2.6	5.3	50.8	39.2	2.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	2.0	3.0	2.5		5.3
NE	3.5	4.7	4.0	1.5		4.5
E	13.9	12.8	11.1	6.7		4.4
SE	2.9	5.2	4.7	2.5		4.6
S	.0	2.0	1.2	.7		4.7
SW	.0	.0	1.0	.0		6.5
W	2.0	1.2	1.2	1.3		4.2
NW	.0	1.0	3.4	.2		5.9
VAR	.0	.0	.0	.0		.0
CALM	.0	1.3	.7	.7		5.2
TOT OBS	35	45	45	24	149	4.6
TOT PCT	23.5	30.2	30.2	16.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.3	.8	1.0	.0	.0	.0	.0	5.5	
NE	.0	.0	.0	1.3	1.2	.7	.0	.0	.0	.0	10.6	
E	.0	.0	1.3	1.8	4.9	.3	1.3	.0	.0	.0	34.7	
SE	.0	.0	1.3	.8	2.3	.7	.0	.0	.0	.0	10.1	
S	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	3.2	
SW	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.8	
W	.0	.0	.0	.0	.7	.0	.5	.0	.0	.0	4.5	
NW	.0	.0	.0	.0	.2	.7	.0	.0	.0	.0	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	0	0	5	8	16	5	3	0	0	0	112	149
TOT PCT	.0	.0	3.4	5.4	10.7	3.4	2.0	.0	.0	.0	75.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
▪ OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
▪ OR >3500	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
▪ OR >2000	3.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2
▪ OR >1000	13.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
▪ OR >600	17.6	20.9	20.9	20.9	20.9	20.9	20.9	20.9
▪ OR >300	19.0	24.2	24.2	24.2	24.2	24.2	24.2	24.2
▪ OR >150	19.0	24.2	24.2	24.2	24.2	24.2	24.2	24.2
▪ OR > 0	19.0	24.2	24.2	24.2	24.2	24.2	24.2	24.2
TOTAL	29	37	37	37	37	37	37	37

TOTAL NUMBER OF OBS: 153

PCT FREQ NH <5/8: 75.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.7	6.5	34.6	21.6	12.4	5.2	9.2	2.0	7.8	.0	153

APRIL

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1870-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.2	1.4	1.0	.0	.0	.0	.0	.0	.6	3.2	
	NO PCP	.5	3.0	2.2	.6	.0	.8	.5	.6	.0	.0	8.3	
	TOT %	.5	3.2	3.7	1.6	.0	.8	.5	.6	.0	.6	11.5	
10+	PCP	.6	.6	1.1	.8	.0	.0	.6	.6	.0	.0	4.5	
	NO PCP	7.2	10.3	38.9	14.4	3.7	.2	4.3	3.0	.0	1.9	84.0	
	TOT %	7.9	10.9	40.1	15.2	3.7	.2	5.0	3.7	.0	1.9	88.5	
	TOT OBS												156
	TOT PCT	8.3	14.1	43.8	16.8	3.7	1.0	5.4	4.3	.0	2.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.6	1.3	
	4-10	.0	2.1	1.0	.2	.0	.8	.5	.6	.0		5.1	
	11-21	.0	1.0	2.7	1.4	.0	.0	.0	.0	.0		5.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	3.2	3.7	1.6	.0	.8	.5	.6	.0	.6	11.5	
10+	0-3	1.6	.2	.0	.6	.0	.0	1.3	.2	.0	1.9	5.8	
	4-10	4.8	8.0	19.9	6.4	2.4	.2	3.7	.8	.0		46.2	
	11-21	1.4	2.7	19.6	7.5	1.3	.0	.0	2.7	.0		35.3	
	22+	.0	.0	.6	.6	.0	.0	.0	.0	.0		1.3	
	TOT %	7.9	10.9	40.1	15.2	3.7	.2	5.0	3.7	.0	1.9	88.5	
	TOT OBS												156
	TOT PCT	8.3	14.1	43.8	16.8	3.7	1.0	5.4	4.3	.0	2.6	100.0	

APRIL

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1870-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	2.9	8.8	.0	2.9	.0	.0	.0	14.7	85.3	34
06&09	.0	.0	6.3	3.1	12.5	9.4	.0	.0	.0	.0	31.3	68.8	32
12&15	.0	.0	2.0	6.0	14.0	2.0	4.0	.0	.0	.0	28.0	72.0	50
18&21	.0	.0	5.4	8.1	5.4	2.7	.0	.0	.0	.0	21.6	78.4	37
TOT	0	0	5	8	16	5	3	0	0	0	37	116	153
PCT	.0	.0	3.3	5.2	10.5	3.3	2.0	.0	.0	.0	24.2	75.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	8.1	91.9	37
06&09	.0	.0	.0	.0	12.5	87.5	32
12&15	.0	.0	.0	.0	11.1	88.9	54
18&21	.0	.0	.0	.0	13.5	86.5	37
TOT	0	0	0	0	18	142	160
PCT	.0	.0	.0	.0	11.3	88.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	2.9	11.8	85.3	34
06&09	.0	6.3	9.4	21.9	68.8	32
12&15	.0	2.0	8.0	20.0	72.0	50
18&21	.0	5.4	13.5	8.1	78.4	37
TOT	0	5	13	24	116	153
PCT	.0	3.3	8.5	15.7	75.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.7	.0	.0	.0	1	.7
85/89	.0	.0	.0	.0	2.0	15.7	.7	.7	29	19.0
80/84	.0	.0	.0	.0	.0	34.0	35.9	3.9	113	73.9
75/79	.0	.0	.0	.0	.0	.0	2.6	3.9	10	6.5
TOTAL	0	0	0	0	4	76	60	13	153	100.0
PCT	.0	.0	.0	.0	2.6	49.7	39.2	8.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.5	.2	.0	.0	.0	.0	.0	.0
.5	5.7	7.7	1.6	.5	.2	.7	1.5	.0	.7
6.9	7.0	34.6	14.2	2.6	.8	4.2	2.1	.0	1.3
1.1	.7	1.8	.8	.0	.0	1.3	.8	.0	.0
8.5	13.4	44.6	16.8	3.1	1.0	6.2	4.4	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	88	85	81	77	77	84.6	60
06&09	86	85	85	83	79	77	77	82.6	35
12&15	88	87	84	81	79	76	76	81.5	58
18&21	86	85	85	83	79	79	79	82.7	40
TOT	90	89	87	83	79	77	76	82.9	193

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	5.7	74.3	17.1	2.9	77	35
06&09	.0	.0	3.1	56.3	25.0	15.6	79	32
12&15	.0	.0	1.9	35.8	52.8	9.4	82	53
18&21	.0	.0	.0	43.2	51.4	5.4	80	37
TOT	0	0	4	79	61	13	80	157

APRIL

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1870-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.6	1	.0	.6
9/10	.0	.0	.0	.0	.6	1	.0	.6
5	.0	.0	.0	.0	.6	1	.0	.6
4	.0	.0	.6	1.3	.0	3	.0	1.9
3	.0	.0	1.3	2.6	.0	6	.0	3.9
2	.0	.0	.0	2.6	.0	4	.0	2.6
1	.0	.0	.6	5.2	.0	9	.0	5.8
0	.0	.0	3.2	1.9	.0	8	.0	5.2
-1	.0	.0	16.1	2.6	.0	29	.0	18.7
-2	.0	.6	13.5	.6	.0	23	.0	14.8
-3	.0	3.9	14.8	1.3	.0	31	.0	20.0
-4	.0	.6	12.3	.0	.0	20	.0	12.9
-5	.0	1.9	3.2	.0	.0	8	.0	5.2
-6	.0	1.9	.6	.0	.0	4	.0	2.6
-7/-8	.0	2.6	.6	.0	.0	5	.0	3.2
-9/-10	.6	.6	.0	.0	.0	2	.0	1.3
TOTAL	1		104		3		0	155
		19		28		155		
PCT	.6	12.3	67.1	18.1	1.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	.0	.0	.0	.0	.0	2.0
1-2	.9	2.8	.0	.0	.0	.0	3.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.1	1.1	.0	.0	.0	2.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	4.0	1.1	.0	.0	.0	8.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.3	8.0	1.7	.0	.0	.0	9.9
3-4	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.3	1.1	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	10.5	2.8	.0	.0	.0	13.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	7.1	10.5	.0	.0	.0	17.6
3-4	.0	7.1	10.5	.0	.0	.0	17.6
5-6	.0	1.7	1.1	.0	.0	.0	2.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	16.8	23.3	.0	.0	.0	40.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	3.7	3.7	.0	.0	.0	7.4
3-4	.0	3.1	2.0	.0	.0	.0	5.1
5-6	.0	.3	1.1	.0	.0	.0	1.4
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.4	9.1	.0	.0	.0	16.5

PERIOD: (OVER-ALL) 1963-1977

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.1	2.3	.0	.0	.0	3.4	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	2.3	.0	.0	.0	4.5	.0	1.4	.0	.0	.0	.0	1.4

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	3.4	.0	.0	.0	.0	3.4	.3	.0	.0	.0	.0	.0	.3	
1-2	.0	2.8	.0	.0	.0	.0	2.8	.0	1.4	.0	.0	.0	.0	1.4	
3-4	1.1	.0	.0	.0	.0	.0	1.1	.0	1.1	1.1	.0	.0	.0	2.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	6.3	.0	.0	.0	.0	7.4	.3	2.6	2.3	.0	.0	.0	5.1	96.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.7	7.6	.0	.0	.0	.0	16.3	
1-2	2.2	26.1	17.4	.0	.0	.0	45.7	
3-4	1.1	12.0	13.0	.0	.0	.0	26.1	
5-6	.0	3.3	5.4	.0	.0	.0	8.7	
7	.0	.0	1.1	.0	.0	.0	1.1	
8-9	.0	.0	2.2	.0	.0	.0	2.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								92
TOT PCT	12.0	48.9	39.1	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	16.2	20.0	8.5	2.3	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	3
6-7	.0	2.3	7.7	8.5	.0	.8	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	4
8-9	.0	1.5	3.8	1.5	3.1	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
10-11	.0	2.3	3.8	.8	.8	1.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
12-13	.0	.0	.8	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.8	.8	.0	2.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	2
TOTAL	5	30	47	30	9	4	3	2	0	0	0	0	0	0	0	0	0	0	0	130	4
PCT	3.8	23.1	36.2	23.1	6.9	3.1	2.3	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1949-1977
(OVER-ALL) 1863-1977

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	7.3	.0	.0	.0	.0	.0	.0	7.3	1.8	.0	.0	.0	.0		.0	90.9
E	2.6	8.4	.0	.0	.0	.0	.0	10.9	2.6	8.4	.0	.0	.0		.0	79.2
SE	2.8	.6	.6	.0	.0	.0	.0	4.0	2.3	2.8	.0	.0	.0		.0	91.5
S	9.3	9.3	7.0	.0	.0	.0	.0	25.6	9.3	.0	.0	.0	.0		.0	65.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	40.0	.0	.0	.0	.0	.0	.0	40.0	.0	40.0	.0	.0	.0		.0	60.0
NW	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	25.0	.0	.0	.0		.0	75.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	33.3	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0		.0	66.7
TOT PCT	3.9	5.2	.7	.0	.0	.0	.0	9.8	2.6	5.2	.0	.0	.0		.0	83.7
TOT OBS:	153															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.1	2.1	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0		.0	95.8
06&09	.0	3.3	3.3	.0	.0	.0	.0	6.7	.0	6.7	.0	.0	.0		.0	86.7
12&15	4.1	8.2	.0	.0	.0	.0	.0	12.2	4.1	12.2	.0	.0	.0		.0	75.5
18&21	10.0	6.7	.0	.0	.0	.0	.0	16.7	6.7	3.3	.0	.0	.0		.0	73.3
TOT PCT	3.8	5.1	.6	.0	.0	.0	.0	9.6	2.5	5.7	.0	.0	.0		.0	83.4
TOT OBS:	157															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	.5	1.3	.0	.0	.0		3.5	7.5	5.8	.0	.0	25.0	2.6	.0	2.9	10.0
NE	2.2	4.0	3.0	.0	.0	.0		9.1	8.6	11.5	.0	7.8	25.0	2.6	8.3	16.3	10.0
E	1.6	19.4	20.3	3.1	.0	.0		44.4	11.4	48.1	68.8	44.0	50.0	40.4	54.2	37.5	.0
SE	1.1	9.5	15.2	1.5	.0	.0		27.3	13.1	25.4	25.0	21.6	.0	32.1	16.7	32.7	60.0
S	.0	6.3	2.0	.3	.0	.0		8.6	9.2	6.2	6.3	8.6	.0	12.8	4.2	9.6	20.0
SW	.0	2.2	1.1	.0	.0	.0		3.2	10.9	1.5	.0	11.2	.0	4.5	.0	.0	.0
W	.7	.4	.0	.0	.0	.0		1.1	5.0	1.2	.0	2.6	.0	.0	4.2	.0	.0
NW	.4	.1	.7	.0	.0	.0		1.2	10.2	.4	.0	.9	.0	2.6	4.2	1.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	.0	.0	3.4	.0	2.6	8.3	.0	.0
TOT OBS	17	79	81	9	0	0	186		11.0	65	8	29	2	39	12	26	5
TOT PCT	9.1	42.5	43.5	4.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	.9	.4	.0	.0		3.5	7.5	5.1	1.6	2.0	4.0
NE	2.7	6.3	.1	.0	.0		9.1	8.6	10.3	8.9	3.9	15.3
E	9.9	27.3	6.6	.5	.0		44.4	11.4	50.3	44.4	43.6	31.5
SE	2.4	17.6	7.3	.0	.0		27.3	13.1	25.3	20.2	28.4	37.1
S	3.2	4.7	.7	.0	.0		8.6	9.2	6.2	8.1	10.8	11.3
SW	.5	2.2	.5	.0	.0		3.2	10.9	1.4	10.5	3.4	.0
W	.7	.4	.0	.0	.0		1.1	5.0	1.0	2.4	1.0	.0
NW	.4	.8	.0	.0	.0		1.2	10.2	.3	.8	2.9	.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	.0	3.2	3.9	.0
TOT OBS	44	112	29	1	0	186		11.0	73	31	51	31
TOT PCT	23.7	60.2	15.6	.5	.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1949-1977
(OVER-ALL) 1863-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	8.2	39.7	49.3	2.7	.0	.0	10.8	100.0	73
06&09	3.2	3.2	45.2	45.2	3.2	.0	.0	10.4	100.0	31
12&15	3.9	7.8	43.1	35.3	9.8	.0	.0	11.9	100.0	51
18&21	.0	9.7	45.2	41.9	3.2	.0	.0	10.7	100.0	31
TOT	3	14	79	81	9	0	0	11.0		186
PCT	1.6	7.5	42.5	43.5	4.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.0	1.7	.4		5.0
NE	3.0	1.7	2.8	1.9		4.1
E	4.4	13.8	21.4	2.7		4.7
SE	3.2	10.2	15.0	2.8		4.7
S	.8	.6	1.3	4.4		6.4
SW	2.3	.9	.0	.0		2.2
W	.0	.0	.0	.6		8.0
NW	.8	.0	.2	.2		2.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.5	.8		6.0
TOT OBS	20	36	58	18	132	4.7
TOT PCT	15.2	27.3	43.9	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.8	.0	.4	.0	.0	.0	.0	1.7	
NE	.0	.0	.0	.2	.0	1.1	.0	.0	.0	.0	8.1	
E	.0	.0	.0	1.9	7.8	1.9	.0	.0	.0	.0	30.7	
SE	.0	.0	.0	2.7	6.6	2.7	.0	.0	.0	.0	19.3	
S	.0	.0	.8	1.3	2.3	.8	.0	.0	.0	.0	1.9	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.8	.8	.8	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	10	23	10	0	0	0	0	88	132
TOT PCT	.0	.0	.8	7.6	17.4	7.6	.0	.0	.0	.0	66.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	6.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5
* OR >1000	20.3	24.1	24.1	24.1	24.1	24.1	24.1	24.1
* OR >600	24.8	31.6	31.6	31.6	31.6	31.6	31.6	31.6
* OR >300	24.8	32.3	32.3	32.3	32.3	32.3	32.3	32.3
* OR >150	24.8	32.3	32.3	32.3	32.3	32.3	32.3	32.3
* OR > 0	24.8	32.3	32.3	32.3	32.3	32.3	32.3	32.3
TOTAL	33	43	43	43	43	43	43	43

TOTAL NUMBER OF OBS: 133 PCT FREQ NH <5/8: 67.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.5	13.5	15.6	20.6	14.9	10.6	12.1	3.5	5.7	.0	141

PERIOD: (PRIMARY) 1949-1977
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.7	2.5	.8	1.3	.0	.0	.0	.0	.7	5.9	
	NO PCP	.0	.7	2.6	2.0	1.3	.0	.0	.0	.0	.7	7.2	
	TOT %	.0	1.3	5.1	2.8	2.6	.0	.0	.0	.0	1.3	13.1	
10+	PCP	.0	.0	2.5	.3	.5	.0	.0	.0	.0	.0	3.3	
	NO PCP	3.1	7.7	37.3	25.8	3.9	3.1	.5	1.0	.0	.7	83.0	
	TOT %	3.1	7.7	39.7	26.1	4.4	3.1	.5	1.0	.0	.7	86.3	
	TOT OBS												153
	TOT PCT	3.1	9.0	44.8	28.9	7.0	3.1	.8	1.3	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.0	.0	.7	.0	.0	.0	.0	.0	1.3	2.0	
	4-10	.0	1.3	3.9	.0	1.3	.0	.0	.0	.0		6.5	
	11-21	.0	.0	.7	2.0	1.3	.0	.0	.0	.0		3.9	
	22+	.0	.0	.5	.2	.0	.0	.0	.0	.0		.7	
	TOT %	.0	1.3	5.1	2.8	2.6	.0	.0	.0	.0	1.3	13.1	
10+	0-3	1.3	2.0	1.3	.7	.0	.0	.0	.0	.0	.7	5.9	
	4-10	.7	2.9	16.2	9.5	2.9	1.8	.5	.2	.0		34.6	
	11-21	1.1	2.8	19.0	14.4	1.1	1.3	.0	.8	.0		40.5	
	22+	.0	.0	3.3	1.6	.3	.0	.0	.0	.0		5.2	
	TOT %	3.1	7.7	39.7	26.1	4.4	3.1	.5	1.0	.0	.7	86.3	
	TOT OBS												153
	TOT PCT	3.1	9.0	44.8	28.9	7.0	3.1	.8	1.3	.0	2.0	100.0	

MAY

PERIOD: (PRIMARY) 1949-1977
(OVER-ALL) 1863-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	4.5	11.4	6.8	.0	.0	.0	.0	22.7	77.3	44
06&09	.0	.0	.0	6.9	17.2	6.9	.0	.0	.0	.0	31.0	69.0	29
12&15	.0	.0	.0	13.5	16.2	2.7	.0	.0	.0	.0	32.4	67.6	37
18&21	.0	.0	3.3	3.3	23.3	13.3	.0	.0	.0	.0	43.3	56.7	30
TOT	0	0	1	10	23	10	0	0	0	0	44	96	140
PCT	.0	.0	.7	7.1	16.4	7.1	.0	.0	.0	.0	31.4	68.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	8.3	91.7	48
06&09	.0	.0	.0	.0	3.3	96.7	30
12&15	.0	2.0	.0	.0	24.5	73.5	49
18&21	.0	.0	.0	.0	10.0	90.0	30
TOT	0	1	0	0	20	136	157
PCT	.0	.6	.0	.0	12.7	86.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	5.0	20.0	75.0	40
06&09	.0	.0	7.1	25.0	67.9	28
12&15	.0	.0	13.9	19.4	66.7	36
18&21	.0	3.4	6.9	34.5	58.6	29
TOT	0	1	11	32	90	133
PCT	.0	.8	8.3	24.1	67.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.7	.0	.0	.0	.0	1	.7
90/94	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
85/89	.0	.0	.0	.0	.7	5.9	1.5	1.5	13	9.6
80/84	.0	.0	.0	.0	5.9	37.0	28.1	7.4	106	78.5
75/79	.0	.0	.0	.0	.7	.7	6.7	2.2	14	10.4
TOTAL	0	0	0	1	10	60	49	15	135	100.0
PCT	.0	.0	.0	.7	7.4	44.4	36.3	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
.0	.0	.6	.2	.0	.0	.0	.0	.0	.0
.0	1.5	5.2	2.2	.0	.7	.0	.0	.0	.0
2.4	6.5	33.7	25.9	5.4	3.0	.6	1.1	.0	.0
.4	1.1	3.5	1.1	2.8	.0	.0	.0	.0	1.5
2.8	9.1	43.0	29.4	8.1	4.4	.6	1.1	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	97	96	89	83	78	77	77	83.3	76
06&09	86	85	84	82	78	78	78	82.0	32
12&15	85	84	83	81	75	74	74	80.6	52
18&21	85	84	84	81	77	76	76	81.1	32
TOT	97	89	86	82	78	75	74	82.0	192

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.4	7.1	71.4	14.3	4.8	75	42
06&09	.0	.0	10.7	32.1	46.4	10.7	80	28
12&15	.0	.0	7.5	40.0	40.0	12.5	80	40
18&21	.0	.0	3.4	24.1	55.2	17.2	83	29
TOT	0	1	10	62	51	15	79	139

PERIOD: (PRIMARY) 1949-1977
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.7	.0	1	.0	.7
11/13	.0	.0	.0	.0	.0	.7	1	.0	.7
7/8	.0	.0	.0	.7	.7	.0	2	.0	1.4
6	.0	.0	.7	.0	.7	.0	2	.0	1.4
5	.0	.0	.7	.0	.0	.0	1	.0	.7
4	.0	.0	.7	.0	.0	.0	1	.0	.7
3	.0	.7	.7	.7	.0	.0	3	.0	2.1
2	.0	.0	2.1	2.1	.0	.0	6	.0	4.2
1	.0	.0	.7	2.1	.0	.0	4	.0	2.8
0	.0	.0	10.5	1.4	.0	.0	17	.0	11.9
-1	.0	1.4	9.1	.7	.0	.0	16	.0	11.2
-2	.0	.7	16.1	.0	.0	.0	24	.0	16.8
-3	.0	2.1	14.7	.0	.0	.0	24	.0	16.8
-4	.0	4.2	5.6	.0	.0	.0	14	.0	9.8
-5	.0	4.2	3.5	.0	.0	.0	11	.0	7.7
-6	.0	4.2	1.4	.0	.0	.0	8	.0	5.6
-7/-8	.0	2.1	.0	.0	.0	.0	3	.0	2.1
-9/-10	2.1	.7	.0	.0	.0	.0	4	.0	2.8
-11/-13	.7	.0	.0	.0	.0	.0	1	.0	.7
TOTAL	4	29	95	11	3	1	143	0	143
PCT	2.8	20.3	66.4	7.7	2.1	.7	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.5	.0	.0	.0	.0	.0	2.5
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.3	.9	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	1.3	.9	.0	.0	.0	4.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	1.3	2.8	1.9	.0	.0	.0	5.9
3-4	.0	1.3	1.3	.0	.0	.0	2.5
5-6	.0	1.3	.3	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	6.6	3.4	.0	.0	.0	11.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	1.3	8.1	5.6	.0	.0	.0	15.0
3-4	.0	4.4	2.5	1.3	.0	.0	8.1
5-6	.0	.0	3.9	.0	.0	.0	3.9
7	.0	1.3	.9	1.3	.0	.0	3.4
8-9	.0	.0	2.5	.9	.0	.0	3.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	1.3	.0	.0	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	15.0	18.8	3.4	.0	.0	38.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.9	3.8	.0	.0	.0	10.6
3-4	.0	4.4	11.3	.0	.0	.0	15.6
5-6	.0	.0	6.3	.0	.0	.0	6.3
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.3	21.6	.3	.0	.0	33.1

PERIOD: (OVER-ALL) 1963-1977

MAY

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.1	1.3	.0	.0	.0	4.4
3-4	.0	2.5	2.5	.0	.0	.0	5.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.6	3.8	.0	.0	.0	9.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.3	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.0	.0	.0	.0	.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.9	.0	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.0	.0	.0	.0	.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.3	.3	.0	.0	.0	.6	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	.3	.0	.0	.0	.6	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.5	2.5	.0	.0	.0	.0	4.9	
1-2	2.5	22.2	12.3	.0	.0	.0	37.0	
3-4	1.2	14.8	18.5	1.2	.0	.0	35.8	
5-6	.0	1.2	12.3	.0	.0	.0	13.6	
7	.0	1.2	1.2	1.2	.0	.0	3.7	
8-9	.0	.0	2.5	1.2	.0	.0	3.7	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	1.2	.0	.0	.0	1.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	42.0	48.1	3.7	.0	.0	100.0	81

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.1	8.1	20.3	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	3
6-7	.0	1.6	3.3	11.4	4.9	3.3	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	6
8-9	.0	.0	2.4	1.6	4.1	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
10-11	.0	.0	.8	1.6	2.4	1.6	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
12-13	.0	.0	.0	.0	.0	.8	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	13
>13	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	11
INDET	6.5	1.6	1.6	2.4	.8	.8	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	4
TOTAL	13	14	35	24	16	8	5	5	1	2	0	0	0	0	0	0	0	0	0	123	5
PCT	10.6	11.4	28.5	19.5	13.0	6.5	4.1	4.1	.8	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1953-1977
(OVER-ALL) 1863-1977

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	5.6	.0	2.8	.0	.0	.0	.0	5.6	.0	2.8	.0	.0	.0		.0	91.7
E	5.6	.7	1.0	.0	.0	.0	.0	6.3	8.3	1.0	.7	.0	2.3		.0	81.5
SE	2.1	7.7	1.7	.0	.0	.0	.0	11.6	4.7	.0	.9	.0	.4		.0	82.4
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	3.9	3.2	1.3	.0	.0	.0	.0	7.7	5.8	.6	.6	.0	1.3		.0	83.9
TOT OBS:	155															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	9.5	2.4	.0	.0	.0	.0	11.9	7.1	.0	.0	.0	4.8		.0	76.2
06&09	5.7	2.9	2.9	.0	.0	.0	.0	8.6	2.9	2.9	.0	.0	.0		.0	85.7
12&15	5.9	.0	.0	.0	.0	.0	.0	5.9	3.9	.0	2.0	.0	.0		.0	88.2
18&21	3.7	.0	.0	.0	.0	.0	.0	3.7	11.1	.0	.0	.0	.0		.0	85.2
TOT PCT	3.9	3.2	1.3	.0	.0	.0	.0	7.7	5.8	.6	.6	.0	1.3		.0	83.9
TOT OBS:	155															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.4	.0	.0	.0	.0		.4	7.0	.0	.0	.0	.0	1.7	.0	.0	.0
NE	.6	3.2	2.2	.7	.0	.0		6.6	12.3	4.3	.0	5.7	.0	3.3	10.0	17.5	.0
E	.6	19.5	23.1	5.2	.0	.0		48.3	13.3	50.5	43.8	44.3	.0	55.0	52.5	40.8	.0
SE	.6	14.8	19.5	2.9	.0	.0		37.7	13.1	37.5	43.8	45.0	.0	31.1	37.5	35.8	100.0
S	.4	2.2	1.7	.0	.0	.0		4.3	9.8	5.8	12.5	2.1	.0	3.3	.0	5.0	.0
SW	.1	.1	.0	.0	.0	.0		.3	4.5	.0	.0	.0	.0	.6	.0	.8	.0
W	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.6	.1	.6	.0	.0	.0		1.2	7.0	1.9	.0	2.9	.0	.6	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0	.0	.0	.0	.0	4.4	.0	.0	.0
TOT OBS	7	73	85	16	0	0	181		12.7	52	8	35	0	45	10	30	1
TOT PCT	3.9	40.3	47.0	8.8	.0	.0		100.0		100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.0	.4	.0	.0	.0		.4	7.0	.0	.0	1.4	.0
NE	1.2	2.9	2.5	.0	.0		6.6	12.3	3.8	5.7	4.5	16.9
E	6.2	28.2	13.4	.6	.0		48.3	13.3	49.6	44.3	54.5	39.5
SE	3.2	23.9	10.6	.0	.0		37.7	13.1	38.3	45.0	32.3	37.9
S	1.8	2.5	.0	.0	.0		4.3	9.8	6.7	2.1	2.7	4.8
SW	.3	.0	.0	.0	.0		.3	4.5	.0	.0	.5	.8
W	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
NW	.6	.7	.0	.0	.0		1.2	7.0	1.7	2.9	.5	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	.0	.0	3.6	.0
TOT OBS	26	106	48	1	0	181		12.7	60	35	55	31
TOT PCT	14.4	58.6	26.5	.6	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1953-1977
(OVER-ALL) 1863-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&04	.0	5.0	25.0	58.3	11.7	.0	.0	14.1	100.0	60
06&09	.0	.0	45.7	51.4	2.9	.0	.0	11.9	100.0	35
12&15	3.6	1.8	49.1	32.7	12.7	.0	.0	12.2	100.0	55
18&21	.0	3.2	48.4	45.2	3.2	.0	.0	12.0	100.0	31
TOT	2	5	73	85	16	0	0	12.7		181
PCT	1.1	2.8	40.3	47.0	8.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.6	.0	.0		3.0
NE	.8	2.7	1.4	1.2		4.7
E	9.9	9.1	21.3	8.5		5.0
SE	8.3	9.9	14.0	4.3		4.5
S	1.7	.0	1.9	1.6		4.9
SW	.2	.0	.2	.0		3.5
W	.0	.0	.0	.0		.0
NW	.0	.2	.8	.0		6.3
VAR	.0	.0	.0	.0		.0
CALM	1.6	.0	.0	.0		.5
TOT OBS	29	29	51	20	129	4.7
TOT PCT	22.5	22.5	39.5	15.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
NE	.0	.0	.2	.0	.8	.0	.0	.0	.0	.0	5.0	
E	.0	.0	.6	5.4	9.3	1.6	.0	.0	.0	.0	32.0	
SE	.0	.0	2.3	3.1	4.8	1.6	.0	.0	.8	.0	23.8	
S	.0	.0	.0	.0	1.4	.8	.0	.0	.0	.0	3.1	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
TOT OBS	0	0	4	11	21	5	0	0	1	0	87	129
TOT PCT	.0	.0	3.1	8.5	16.3	3.9	.0	.0	.8	.0	67.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
* OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
* OR >3500	.8	.8	.8	.8	.8	.8	.8	.8
* OR >2000	2.3	3.9	3.9	3.9	3.9	3.9	3.9	3.9
* OR >1000	15.6	20.3	20.3	20.3	20.3	20.3	20.3	20.3
* OR >600	23.4	28.9	28.9	28.9	28.9	28.9	28.9	28.9
* OR >300	25.0	31.3	32.0	32.0	32.0	32.0	32.0	32.0
* OR >150	25.0	31.3	32.0	32.0	32.0	32.0	32.0	32.0
* OR > 0	25.0	31.3	32.0	32.0	32.0	32.0	32.0	32.0
TOTAL	32	40	41	41	41	41	41	41

TOTAL NUMBER OF OBS: 128 PCT FREQ NH <5/8: 68.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.0	17.0	15.6	10.3	14.1	11.9	5.9	6.7	9.6	.0	135

PERIOD: (PRIMARY) 1953-1977
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.6	
2<5	PCP	.0	.2	.5	.6	.0	.0	.0	.0	.0	.0	1.3	
	NO PCP	.0	.8	.5	.6	.0	.0	.0	.0	.0	.0	1.9	
	TOT %	.0	1.0	1.0	1.3	.0	.0	.0	.0	.0	.0	3.2	
5<10	PCP	.0	.2	.8	1.0	.0	.0	.0	.0	.0	.0	1.9	
	NO PCP	.0	1.9	5.2	4.5	1.3	.0	.0	.0	.0	.0	12.9	
	TOT %	.0	2.1	6.0	5.5	1.3	.0	.0	.0	.0	.0	14.8	
10+	PCP	.0	.0	1.8	2.7	.0	.0	.0	.0	.0	.0	4.5	
	NO PCP	.5	2.7	39.5	27.9	3.1	.3	.0	1.5	.0	1.3	76.8	
	TOT %	.5	2.7	41.3	30.6	3.1	.3	.0	1.5	.0	1.3	81.3	
	TOT OBS												155
	TOT PCT	.5	5.8	48.7	37.6	4.4	.3	.0	1.5	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.5	.2	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.6	.0	.6	.0	.0	.0	.0	.0		1.3	
	11-21	.0	.2	.5	.6	.0	.0	.0	.0	.0		1.3	
	22+	.0	.2	.5	.0	.0	.0	.0	.0	.0		.6	
	TOT %	.0	1.0	1.0	1.3	.0	.0	.0	.0	.0	.0	3.2	
5<10	0-3	.0	.6	.6	.6	.0	.0	.0	.0	.0	.0	1.9	
	4-10	.0	1.3	2.4	2.7	.0	.0	.0	.0	.0		6.5	
	11-21	.0	.2	1.8	1.9	1.3	.0	.0	.0	.0		5.2	
	22+	.0	.0	1.1	.2	.0	.0	.0	.0	.0		1.3	
	TOT %	.0	2.1	6.0	5.5	1.3	.0	.0	.0	.0	.0	14.8	
10+	0-3	.0	.0	.0	.0	.5	.2	.0	.6	.0	1.3	2.6	
	4-10	.5	.5	18.1	12.3	1.9	.2	.0	.2	.0		33.5	
	11-21	.0	1.6	19.4	16.5	.6	.0	.0	.6	.0		38.7	
	22+	.0	.6	3.9	1.9	.0	.0	.0	.0	.0		6.5	
	TOT %	.5	2.7	41.3	30.6	3.1	.3	.0	1.5	.0	1.3	81.3	
	TOT OBS												155
	TOT PCT	.5	5.8	48.7	37.6	4.4	.3	.0	1.5	.0	1.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	6.3	12.5	21.9	15.6	.0	.0	.0	.0	56.3	43.8	32
06&09	.0	.0	.0	3.0	6.1	.0	.0	.0	.0	.0	9.1	90.9	33
12&15	.0	.0	2.4	12.2	17.1	.0	.0	.0	2.4	.0	34.1	65.9	41
18&21	.0	.0	4.0	4.0	20.0	.0	.0	.0	.0	.0	28.0	72.0	25
TOT	0	0	4	11	21	5	0	0	1	0	42	89	
PCT	.0	.0	3.1	8.4	16.0	3.8	.0	.0	.8	.0	32.1	67.9	10[illegible]

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	4.8	23.8	71.4	42
06&09	.0	.0	.0	5.7	2.9	91.4	35
12&15	.0	.0	.0	2.0	15.7	82.4	51
18&21	.0	.0	3.7	.0	14.8	81.5	27
TOT	0	0	1	5	23	126	155
PCT	.0	.0	.6	3.2	14.8	81.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	6.5	22.6	35.5	41.9	31
06&09	.0	.0	6.5	6.5	87.1	31
12&15	.0	2.4	14.6	19.5	65.9	41
18&21	.0	4.0	12.0	20.0	68.0	25
TOT	0	4	18	26	84	128
PCT	.0	3.1	14.1	20.3	65.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	3.2	.0	.8	5	4.0
80/84	.0	.0	.0	.0	.0	35.7	33.3	4.8	93	73.8
75/79	.0	.0	.0	.0	.0	3.2	13.5	4.8	27	21.4
70/74	.0	.0	.0	.0	.0	.0	.0	.8	1	.8
TOTAL	0	0	0	0	0	53	59	14	126	100.0
PCT	.0	.0	.0	.0	.0	42.1	46.8	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	2.4	.8	.0	.0	.0	.8	.0	.0
.6	3.4	38.1	28.6	.6	.0	.0	1.0	.0	1.6
.0	.4	11.3	6.9	2.8	.0	.0	.0	.0	.0
.0	.0	.0	.8	.0	.0	.0	.0	.0	.0
.6	3.8	51.8	37.1	3.4	.0	.0	1.8	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	86	86	82	79	77	77	82.2	58
06&09	84	83	83	81	78	75	75	81.3	34
12&15	86	85	83	80	77	77	77	80.3	55
18&21	90	89	82	80	76	70	70	79.9	30
TOT	90	86	84	81	77	75	70	81.0	177

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	54.5	33.3	12.1	81	33
06&09	.0	.0	.0	44.8	51.7	3.4	80	29
12&15	.0	.0	.0	41.5	43.9	14.6	82	41
18&21	.0	.0	.0	21.7	65.2	13.0	84	23
TOT	0	0	0	53	59	14	82	126

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.7	.0	1	.0	.7
5	.0	.0	.0	.7	.7	2	.0	1.5
4	.0	.0	.7	.0	.0	1	.0	.7
3	.0	.0	.0	.7	.0	1	.0	.7
2	.0	.0	.0	.7	.7	2	.0	1.5
1	.0	.0	1.5	4.4	.7	9	.0	6.6
0	.0	.0	1.5	9.6	.0	15	.0	11.0
-1	.0	.0	2.9	11.8	.0	20	.7	14.0
-2	.0	.0	1.5	15.4	.7	24	.0	17.6
-3	.0	.0	4.4	5.9	.0	14	.0	10.3
-4	.0	.7	7.4	6.6	.0	20	.0	14.7
-5	.0	.7	6.6	2.9	.0	14	.0	10.3
-6	.0	.7	4.4	.0	.0	7	.0	5.1
-7/-8	.0	.0	3.7	.0	.0	5	.0	3.7
-9/-10	.7	.0	.0	.0	.0	1	.0	.7
TOTAL	1	3	47	81	4	136	1	135
PCT	.7	2.2	34.6	59.6	2.9	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.3	.0	.0	.0	1.4
1-2	.0	1.4	1.4	.0	.0	.0	2.9
3-4	.0	.0	.6	1.1	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	2.3	1.4	.0	.0	6.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.9	.0	.0	.0	3.2
1-2	.0	10.3	7.5	.0	.0	.0	17.8
3-4	.0	5.2	7.5	.0	.0	.0	12.6
5-6	.0	.0	5.7	1.1	.0	.0	6.9
7	.0	.0	2.0	2.9	.0	.0	4.9
8-9	.0	.0	1.1	1.7	.0	.0	2.9
10-11	.0	.0	.0	2.3	.0	.0	2.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.8	24.7	8.9	.0	.0	51.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	8.9	4.9	.0	.0	.0	13.8
3-4	.0	6.6	2.3	.0	.0	.0	8.9
5-6	.0	.0	3.4	.0	.0	.0	3.4
7	.0	.0	4.9	2.9	.0	.0	7.8
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.5	15.5	3.4	.0	.0	34.5

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.1	.0	.0	.0	1.1
3-4	.9	.9	.0	.0	.0	.0	1.7
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	.9	3.4	.0	.0	.0	5.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.3	.0	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.0	.0	.0	.0	.0	.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	1.1	.0	.0	.0	1.1	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	1.1	.0	.0	.0	1.1	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.1	3.4	1.1	.0	.0	.0	5.7	
1-2	.0	20.7	16.1	.0	.0	.0	36.8	
3-4	1.1	12.6	10.3	1.1	.0	.0	25.3	
5-6	.0	.0	10.3	1.1	.0	.0	11.5	
7	.0	.0	8.0	5.7	.0	.0	13.8	
8-9	.0	.0	1.1	2.3	.0	.0	3.4	
10-11	.0	.0	.0	2.3	.0	.0	2.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	36.8	47.1	13.8	.0	.0	100.0	87

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	7.8	6.0	6.9	4.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
6-7	.0	.0	5.2	12.9	11.2	3.4	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
8-9	.0	.0	2.6	8.6	5.2	2.6	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
10-11	.0	.0	1.7	1.7	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
12-13	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	1.7	.9	.0	4.3	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
TOTAL	2	10	19	40	28	8	7	1	1	0	0	0	0	0	0	0	0	0	0	116	5
PCT	1.7	8.6	16.4	34.5	24.1	6.9	6.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1904-1977
(OVER-ALL) 1872-1977

AREA 0010 SAMOA ISLANDS
13.8S 170.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	57.1	.0	.0	.0	.0	.0	57.1	.0	.0	.0	.0	.0	.0	.0	42.9
NE	.0	10.8	.0	.0	.0	.0	.0	10.8	21.6	.0	.0	.0	.0	.0	.0	67.6
E	1.6	4.5	1.6	.0	.0	.0	.0	6.2	3.3	.0	.0	.0	.0	.0	.0	90.5
SE	10.4	2.6	4.2	.0	.0	.0	.0	17.2	4.2	.0	.0	.0	.0	.0	.0	78.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.5	4.5	2.3	.0	.0	.0	.0	10.6	4.5	.0	.0	.0	.0	.0	.0	84.8
TOT OBS:	132															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.7	5.1	5.1	.0	.0	.0	.0	15.4	2.6	.0	.0	.0	.0	.0	.0	82.1
06&09	.0	4.8	4.8	.0	.0	.0	.0	9.5	.0	.0	.0	.0	.0	.0	.0	90.5
12&15	1.9	1.9	.0	.0	.0	.0	.0	3.8	3.8	.0	.0	.0	.0	.0	.0	92.3
18&21	9.5	9.5	.0	.0	.0	.0	.0	19.0	14.3	.0	.0	.0	.0	.0	.0	66.7
TOT PCT	4.5	4.5	2.3	.0	.0	.0	.0	10.5	4.5	.0	.0	.0	.0	.0	.0	85.0
TOT OBS:	133															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.9	.0	.0	.0	.0		.9	6.7	.0	.0	.0	.0	3.6	.0	.0	.0
NE	.8	3.1	3.4	.1	.0	.0		7.4	10.5	8.2	10.0	9.1	.0	4.2	8.3	9.1	.0
E	2.3	15.1	28.0	2.2	.0	.0		47.7	12.6	52.6	30.0	42.0	100.0	42.7	25.0	52.3	.0
SE	.0	9.8	19.8	4.4	.0	.0		34.0	14.8	28.4	60.0	39.8	.0	35.4	66.7	34.1	.0
S	.0	2.7	2.0	.0	.0	.0		4.7	11.0	6.0	.0	.0	.0	5.7	.0	4.5	.0
SW	.0	1.2	.0	.0	.0	.0		1.2	5.1	.3	.0	9.1	.0	.0	.0	.0	.0
W	.5	1.0	.0	.0	.0	.0		1.6	7.3	2.3	.0	.0	.0	2.1	.0	.0	.0
NW	.5	.5	.0	.0	.0	.0		1.0	4.5	.0	.0	.0	.0	4.2	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	2.3	.0	.0	.0	2.1	.0	.0	.0
TOT OBS	11	66	102	13	0	0	192		12.6	88	5	22	1	48	6	22	0
TOT PCT	5.7	34.4	53.1	6.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.5	.4	.0	.0	.0		.9	6.7	.0	.0	3.2	.0
NE	1.4	5.3	.7	.0	.0		7.4	10.5	8.3	8.7	4.6	9.1
E	5.7	32.7	8.7	.5	.0		47.7	12.6	51.3	44.6	40.7	52.3
SE	2.2	19.3	12.0	.5	.0		34.0	14.8	30.1	38.0	38.9	34.1
S	.4	3.8	.5	.0	.0		4.7	11.0	5.6	.0	5.1	4.5
SW	1.2	.0	.0	.0	.0		1.2	5.1	.3	8.7	.0	.0
W	.5	1.0	.0	.0	.0		1.6	7.3	2.2	.0	1.9	.0
NW	.5	.5	.0	.0	.0		1.0	4.5	.0	.0	3.7	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	2.2	.0	1.9	.0
TOT OBS	27	121	42	2	0	192		12.6	93	23	54	22
TOT PCT	14.1	63.0	21.9	1.0	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1904-1977
(OVER-ALL) 1872-1977

AREA 0010 SAMOA ISLANDS
13.8S 170.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.2	4.3	32.3	55.9	5.4	.0	.0	12.5	100.0	93
06&09	.0	.0	47.8	43.5	8.7	.0	.0	12.1	100.0	23
12&15	1.9	7.4	35.2	50.0	5.6	.0	.0	12.2	100.0	54
18&21	.0	.0	27.3	59.1	13.6	.0	.0	14.6	100.0	22
TOT	3	8	66	102	13	0	0	12.6		192
PCT	1.6	4.2	34.4	53.1	6.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.0	.0	.0		1.1
NE	2.2	2.9	1.1	.0		3.2
E	14.7	13.8	15.1	3.3		3.9
SE	7.5	7.2	13.6	7.2		4.9
S	1.3	.7	2.4	.9		5.3
SW	.0	.0	1.1	.0		5.4
W	.0	.9	.0	.0		4.0
NW	.9	.9	.0	.0		2.0
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	.0	.0		2.0
TOT OBS	33	30	38	13	114	4.2
TOT PCT	28.9	26.3	33.3	11.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
NE	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	5.0	
E	.0	.0	1.5	4.8	3.9	2.2	.9	.0	.0	.0	33.6	
SE	1.8	.0	1.1	6.4	5.7	2.2	.9	.0	.0	.0	17.5	
S	.0	.0	.0	1.8	1.5	.0	.0	.0	.0	.0	2.0	
SW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
TOT OBS	2	0	3	16	13	5	2	0	0	0	73	114
TOT PCT	1.8	.0	2.6	14.0	11.4	4.4	1.8	.0	.0	.0	64.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >2000	5.3	6.1	6.1	6.1	6.1	6.1	6.1	6.1
* OR >1000	14.0	16.7	16.7	17.5	17.5	17.5	17.5	17.5
* OR >600	26.3	30.7	30.7	31.6	31.6	31.6	31.6	31.6
* OR >300	28.9	33.3	33.3	34.2	34.2	34.2	34.2	34.2
* OR >150	28.9	33.3	33.3	34.2	34.2	34.2	34.2	34.2
* OR > 0	29.8	35.1	35.1	36.0	36.0	36.0	36.0	36.0
TOTAL	34	40	40	41	41	41	41	41

TOTAL NUMBER OF OBS: 114

PCT FREQ NH <5/8: 64.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.5	14.4	19.5	19.5	8.5	7.6	12.7	5.9	8.5	.8	118

PERIOD: (PRIMARY) 1906-1977
(OVER-ALL) 1872-1977

AREA 0010 SAMOA ISLANDS
13.8S 170.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
	PCP	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
	PCP	.0	.8	1.3	4.0	.0	.0	.0	.0	.0	.0	6.1	
5<10	NO PCP	.0	.0	1.5	3.8	.0	.0	.0	.0	.0	.0	5.3	
	TOT %	.0	.8	2.8	7.8	.0	.0	.0	.0	.0	.0	11.4	
	PCP	.8	.0	.8	1.5	.0	.0	.0	.0	.0	.0	3.0	
10+	NO PCP	.6	6.3	41.7	26.3	4.5	.9	1.5	1.5	.0	.8	84.1	
	TOT %	1.3	6.3	42.4	27.8	4.5	.9	1.5	1.5	.0	.8	87.1	
	TOT OBS												132
	TOT PCT	1.3	7.0	46.0	36.4	4.5	.9	1.5	1.5	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.8	.0	.0	.0	.0	.0		.8	
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.8	.0	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	.0	.0	.8	3.8	.0	.0	.0	.0	.0		4.5	
	11-21	.0	.8	1.3	3.2	.0	.0	.0	.0	.0		5.3	
	22+	.0	.0	.8	.8	.0	.0	.0	.0	.0		1.5	
	TOT %	.0	.8	2.8	7.8	.0	.0	.0	.0	.0	.0	11.4	
	0-3	.0	.4	1.9	.0	.0	.0	.0	.8	.0	.8	3.8	
10+	4-10	1.3	3.8	13.8	5.7	2.5	.9	1.5	.8	.0		30.3	
	11-21	.0	1.9	26.1	18.4	2.1	.0	.0	.0	.0		48.5	
	22+	.0	.2	.6	3.8	.0	.0	.0	.0	.0		4.5	
	TOT %	1.3	6.3	42.4	27.8	4.5	.9	1.5	1.5	.0	.8	87.1	
	TOT OBS												132
	TOT PCT	1.3	7.0	46.0	36.4	4.5	.9	1.5	1.5	.0	.8	100.0	

JULY

PERIOD: (PRIMARY) 1904-1977
(OVER-ALL) 1872-1977

AREA 0010 SAMOA ISLANDS
13.8S 170.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.0	15.2	18.2	6.1	.0	.0	.0	.0	42.4	57.6	33
06&09	.0	.0	4.8	14.3	4.8	.0	4.8	.0	.0	.0	28.6	71.4	21
12&15	2.4	.0	2.4	7.1	2.4	4.8	.0	.0	.0	.0	19.0	81.0	42
18&21	4.8	.0	.0	23.8	23.8	4.8	4.8	.0	.0	.0	61.9	38.1	21
TOT	2	0	3	16	13	5	2	0	0	0	41	76	117
PCT	1.7	.0	2.6	13.7	11.1	4.3	1.7	.0	.0	.0	35.0	65.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	2.6	2.6	12.8	82.1	39
06&09	.0	.0	.0	.0	9.5	90.5	21
12&15	.0	.0	.0	.0	7.7	92.3	52
18&21	.0	.0	.0	.0	19.0	81.0	21
TOT	0	0	1	1	15	116	133
PCT	.0	.0	.8	.8	11.3	87.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NM >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.1	25.0	21.9	53.1	32
06&09	.0	4.8	19.0	9.5	71.4	21
12&15	2.4	4.9	12.2	7.3	80.5	41
18&21	5.0	5.0	30.0	35.0	35.0	20
TOT	2	5	23	19	72	114
PCT	1.8	4.4	20.2	16.7	63.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.8	.0	2.4	.0	.0	4	3.2
80/84	.0	.0	.0	.0	2.4	22.4	33.6	4.8	79	63.2
75/79	.0	.0	.0	.0	3.2	8.8	12.0	9.6	42	33.6
TOTAL	0	0	0	1	7	42	57	18	125	100.0
PCT	.0	.0	.0	.8	5.6	33.6	45.6	14.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	2.0	.6	.6	.0	.0	.0	.0	.0
	.6	5.0	32.0	19.4	2.0	1.8	.8	1.6	.0	.0
	.8	2.4	12.6	14.6	1.6	.0	.8	.0	.0	.8
	1.4	7.4	46.6	34.6	4.2	1.8	1.6	1.6	.0	.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	88	82	78	77	77	82.6	90
06&09	83	82	82	80	78	77	77	80.0	22
12&15	84	83	82	80	77	75	75	79.7	53
18&21	82	81	81	80	76	75	75	79.4	21
TOT	90	89	86	81	77	75	75	81.1	186

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.6	7.9	42.1	42.1	5.3	78	38
06&09	.0	.0	4.8	38.1	38.1	19.0	81	21
12&15	.0	.0	6.4	27.7	51.1	14.9	82	47
18&21	.0	.0	.0	25.0	45.0	30.0	86	20
TOT	0	1	7	42	57	19	81	126

PERIOD: (PRIMARY) 1904-1977
(OVER-ALL) 1872-1977

AREA 0010 SAMOA ISLANDS
13.8S 170.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	.0	.8	.0	1	.0	.8
5	.0	.8	.0	.8	.0	2	.0	1.7
4	.0	.0	.8	.0	.8	2	.0	1.7
3	.0	.0	.8	.8	.0	2	.0	1.7
2	.0	.8	2.5	.0	.0	4	.0	3.3
1	.0	.0	4.2	.0	.0	5	.0	4.2
0	.0	4.2	10.8	.0	.0	18	.0	15.0
-1	.0	10.0	7.5	.0	.0	21	.0	17.5
-2	.0	10.8	6.7	.0	.0	21	.0	17.5
-3	.0	9.2	2.5	.0	.0	14	.0	11.7
-4	.0	5.0	.8	.0	.0	7	.0	5.8
-5	.0	6.7	.8	.0	.0	9	.0	7.5
-6	.0	5.0	.8	.0	.0	7	.0	5.8
-7/-8	3.3	2.5	.0	.0	.0	7	.0	5.8
TOTAL	4		46	1		120	0	120
		66		3				
PCT	3.3	55.0	38.3	2.5	.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.0	.0	.0	.0	.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	2.7	.0	.0	.0	.0	2.7
3-4	.0	1.1	3.3	.0	.0	.0	4.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	3.3	.3	.0	.0	8.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	2.2	9.5	5.7	.0	.0	.0	17.4
3-4	.0	3.3	12.2	.0	.0	.0	15.5
5-6	.0	1.1	5.4	1.1	.0	.0	7.6
7	.0	.0	5.4	.0	.0	.0	5.4
8-9	.0	.0	2.7	.8	.0	.0	3.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	13.9	31.5	1.9	.0	.0	49.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	2.2	4.1	.0	.0	.0	6.3
3-4	.0	4.6	3.0	1.1	.0	.0	8.7
5-6	.0	.0	7.6	.0	.0	.0	7.6
7	.0	.0	3.5	3.3	.0	.0	6.8
8-9	.0	.0	1.6	1.1	.0	.0	2.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.9	19.8	5.4	.0	.0	33.2

PERIOD: (OVER-ALL) 1964-1977

JULY

TABLE 18 (CONT)

AREA 0010 SAMOA ISLANDS
13.0S 170.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.6	.0	.0	.0	.0	1.6	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	1.9	.0	.0	.0	4.6	.0	.3	.0	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.1	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	1.1	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.2	2.2	.0	.0	.0	.0	4.3	
1-2	2.2	17.2	9.7	.0	.0	.0	29.0	
3-4	.0	10.8	19.4	1.1	.0	.0	31.2	
5-6	.0	1.1	12.9	1.1	.0	.0	15.1	
7	.0	.0	10.8	3.2	.0	.0	14.0	
8-9	.0	.0	4.3	2.2	.0	.0	6.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								93
TOT PCT	4.3	31.2	57.0	7.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1954-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	3.5	14.9	8.8	4.4	2.6	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	4
6-7	.0	1.8	4.4	9.6	13.2	4.4	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	6
8-9	.0	.9	.9	6.1	5.3	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
10-11	.0	.0	1.8	.9	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
12-13	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
>13	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	.9	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
TOTAL	2	7	25	30	27	17	4	2	0	0	0	0	0	0	0	0	0	0	0	114	5
PCT	1.8	6.1	21.9	26.3	23.7	14.9	3.5	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1889-1977
(OVER-ALL) 1868-1977

AREA 0010 SAMOA ISLANDS
13.8S 171.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNDW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		100.0
NE	2.9	11.8	.0	.0	.0	.0	.0	14.7	.0	.0	.0	.0	2.9		.0		82.4
E	2.2	3.6	.0	.0	.0	.0	.0	5.8	5.1	.0	.0	.0	1.1		.0		88.0
SE	3.0	3.6	.0	.0	.0	.0	.0	6.7	11.5	.0	.0	.0	.0		.0		81.8
S	.0	.0	.0	.0	.0	.0	.0	.0	24.1	.0	.0	.0	.0		.0		75.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0		.0		80.0
W	.0	.0	.0	.0	.0	.0	.0	.0	57.1	.0	.0	.0	.0		.0		42.9
NW	.0	30.8	.0	.0	.0	.0	.0	30.8	.0	30.8	.0	.0	.0		.0		38.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		100.0
TOT PCT	2.2	4.3	.0	.0	.0	.0	.0	6.5	8.7	.7	.0	.0	.7		.0		83.3
TOT OBS:	138																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNDW	NO SIG WEA
00&03	.0	5.1	.0	.0	.0	.0	.0	5.1	7.7	.0	.0	.0	.0		.0		87.2
06&09	4.0	.0	.0	.0	.0	.0	.0	4.0	8.0	.0	.0	.0	.0		.0		88.0
12&15	1.8	7.3	.0	.0	.0	.0	.0	9.1	5.9	1.8	.0	.0	1.8		.0		81.8
18&21	4.5	.0	.0	.0	.0	.0	.0	4.5	18.2	.0	.0	.0	.0		.0		77.3
TOT PCT	2.1	4.3	.0	.0	.0	.0	.0	6.4	8.9	.7	.0	.0	.7		.0		83.7
TOT OBS:	141																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	1.4	.0	.0	.0	.0		1.4	6.4	4.0	.0	.0	.0	.0	.0	.0	.0
NE	1.0	5.8	1.0	.0	.0	.0		7.9	7.2	7.0	9.1	9.6	.0	6.6	25.0	.0	.0
E	.5	18.6	25.3	4.1	.0	.0		48.4	12.5	50.7	59.1	48.1	.0	46.9	50.0	40.9	.0
SE	2.4	10.1	17.0	2.2	.0	.0		31.7	12.6	32.4	13.6	29.8	100.0	35.7	17.9	37.5	.0
S	.8	.8	1.7	.5	.0	.0		3.8	12.8	1.5	.0	12.5	.0	4.6	.0	3.4	.0
SW	1.0	1.6	.0	.0	.0	.0		2.6	3.6	.0	.0	.0	.0	2.0	.0	18.2	.0
W	.0	.9	.0	.0	.0	.0		.9	6.8	1.1	.0	.0	.0	2.0	.0	.0	.0
NW	.0	1.7	.0	.0	.0	.0		1.7	6.7	.4	9.1	.0	.0	2.0	7.1	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	2.9	9.1	.0	.0	.0	.0	.0	.0
TOT OBS	14	78	86	13	0	0	191		11.5	68	11	26	1	49	14	22	0
TOT PCT	7.3	40.8	45.0	6.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	.5	.0	.0	.0		1.4	6.4	3.5	.0	.0	.0
NE	4.3	3.4	.1	.0	.0		7.9	7.2	7.3	9.3	10.7	.0
E	9.0	28.5	10.5	.4	.0		48.4	12.5	51.9	46.3	47.6	40.9
SE	5.9	17.1	8.5	.1	.0		31.7	12.6	29.7	32.4	31.7	37.5
S	.8	1.7	1.3	.0	.0		3.8	12.8	1.3	12.0	3.6	3.4
SW	2.6	.0	.0	.0	.0		2.6	3.6	.0	.0	1.6	18.2
W	.5	.4	.0	.0	.0		.9	6.8	.9	.0	1.6	.0
NW	1.0	.7	.0	.0	.0		1.7	6.7	1.6	.0	3.2	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	3.8	.0	.0	.0
TOT OBS	51	100	39	1	0	191		11.5	79	27	63	22
TOT PCT	26.7	52.4	20.4	.5	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.8	2.5	41.8	44.3	7.6	.0	.0	11.4	100.0	79
06&09	.0	14.8	33.3	51.9	.0	.0	.0	11.3	100.0	27
12&15	.0	6.3	41.3	42.9	9.5	.0	.0	11.7	100.0	63
18&21	.0	4.5	45.5	45.5	4.5	.0	.0	11.2	100.0	22
TOT	3	11	78	86	13	0	0	11.5		191
PCT	1.6	5.8	40.8	45.0	6.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.0	.0		6.0
NE	.0	3.6	.2	1.0		4.3
E	12.6	14.6	18.9	6.1		4.4
SE	6.1	7.0	11.7	4.9		4.9
S	.7	.0	3.2	1.7		6.2
SW	1.0	.0	3.9	.0		5.8
W	.0	.0	1.0	.0		7.0
NW	.0	.0	1.0	.0		6.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	21	26	42	14	103	4.8
TOT PCT	20.4	25.2	40.8	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
NE	.0	.0	.5	.2	.5	.0	.0	.0	.0	.0	3.6	
E	.7	.0	2.2	2.4	6.8	1.7	1.0	.0	.0	.0	37.4	
SE	.2	.0	1.2	4.4	3.2	3.2	.0	.0	.0	.0	17.5	
S	.0	.0	1.0	.7	2.2	1.0	.0	.0	.0	.0	.7	
SW	.0	.0	1.9	.0	1.0	.0	.0	.0	.0	1.0	1.0	
W	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	1	0	7	8	16	6	1	0	0	1	63	103
TOT PCT	1.0	.0	6.8	7.8	15.5	5.8	1.0	.0	.0	.0	61.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	1.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >2000	5.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7
* OR >1000	19.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1
* OR >600	25.0	30.8	30.8	30.8	30.8	30.8	30.8	30.8
* OR >300	26.9	36.5	37.5	37.5	37.5	37.5	37.5	37.5
* OR >150	26.9	36.5	37.5	37.5	37.5	37.5	37.5	37.5
* OR > 0	27.9	37.5	38.5	38.5	38.5	38.5	38.5	38.5
TOTAL	29	39	40	40	40	40	40	40

TOTAL NUMBER OF OBS: 104 PCT FREQ NH <5/8: 61.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.9	16.4	15.5	16.4	12.1	12.1	5.2	11.2	9.5	.9	116

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
5<10	PCP	.0	.7	1.8	1.8	.0	.0	.0	.7	.0	.0	5.1	
	NO PCP	.0	.7	7.6	1.1	.7	2.2	.0	.7	.0	.7	13.8	
	TOT %	.0	1.4	9.4	2.9	.7	2.2	.0	1.4	.0	.7	18.8	
10+	PCP	.0	.2	1.1	.2	.0	.0	.0	.0	.0	.0	1.4	
	NO PCP	.7	4.5	39.5	26.8	3.8	1.4	1.3	.9	.0	.0	79.0	
	TOT %	.7	4.7	40.6	27.0	3.8	1.4	1.3	.9	.0	.0	80.4	
	TOT OBS												138
	TOT PCT	.7	6.2	50.0	29.9	5.3	3.6	1.3	2.4	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.7	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
5<10	0-3	.0	.0	.7	.7	.0	.0	.0	.0	.0	.7	2.2	
	4-10	.0	1.3	5.4	1.3	.0	2.2	.0	1.4	.0		11.5	
	11-21	.0	.2	2.7	.7	.0	.0	.0	.0	.0		3.6	
	22+	.0	.0	.5	.2	.7	.0	.0	.0	.0		1.4	
	TOT %	.0	1.4	9.4	2.9	.7	2.2	.0	1.4	.0	.7	18.7	
10+	0-3	.0	.7	.0	1.8	1.1	1.4	.0	.0	.0	.0	5.0	
	4-10	.7	3.4	13.1	8.3	1.1	.0	1.3	.9	.0		28.8	
	11-21	.0	.5	24.1	14.7	1.6	.0	.0	.0	.0		41.0	
	22+	.0	.0	3.8	2.0	.0	.0	.0	.0	.0		3.8	
	TOT %	.7	4.7	41.0	26.8	3.8	1.4	1.3	.9	.0	.0	80.6	
	TOT OBS												139
	TOT PCT	.7	6.1	50.4	29.7	5.2	3.6	1.3	2.3	.0	.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.4	.0	13.8	10.3	.0	.0	.0	.0	27.6	72.4	29
06&09	.0	.0	8.7	13.0	13.0	8.7	.0	.0	.0	.0	43.5	56.5	23
12&15	2.7	.0	2.7	8.1	16.2	2.7	2.7	.0	.0	.0	35.1	64.9	37
18&21	.0	.0	13.6	9.1	13.6	.0	.0	.0	.0	4.5	40.9	59.1	22
TOT	1	0	7	8	16	6	1	0	0	1	40	71	111
PCT	.9	.0	6.3	7.2	14.4	5.4	.9	.0	.0	.9	36.0	64.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	23.1	76.9	39
06&09	.0	.0	.0	3.8	11.5	84.6	26
12&15	.0	.0	.0	.0	16.4	83.6	55
18&21	.0	.0	.0	.0	22.7	77.3	22
TOT	0	0	0	1	26	115	142
PCT	.0	.0	.0	.7	18.3	81.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.7	3.7	25.9	70.4	27
06&09	.0	9.1	22.7	22.7	54.5	22
12&15	2.9	5.9	14.7	23.5	61.8	34
18&21	.0	14.3	23.8	19.0	57.1	21
TOT	1	8	16	24	64	104
PCT	1.0	7.7	15.4	23.1	61.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	1.8	.0	.0	2	1.8
80/84	.0	.0	.0	.0	.9	21.6	22.5	3.6	54	48.6
75/79	.0	.0	.0	.0	2.7	14.4	24.3	8.1	55	49.5
TOTAL	0	0	0	0	4	42	52	13	111	100.0
PCT	.0	.0	.0	.0	3.6	37.8	46.8	11.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.9	.0	.0	.0	.7	.2	.0	.0
.9	4.1	31.1	10.4	1.4	.9	.0	.0	.0	.0
.0	2.3	17.3	20.3	5.2	2.7	.9	.9	.0	.0
.9	6.3	49.3	30.6	6.5	3.6	1.6	1.1	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	88	86	82	77	75	75	81.9	73
06&09	84	83	83	80	75	75	75	79.5	24
12&15	82	81	81	79	77	75	75	78.8	67
18&21	81	80	80	79	77	77	77	79.4	22
TOT	89	86	85	80	77	75	75	80.2	186

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	51.7	41.4	6.9	80	29
06&09	.0	.0	8.7	26.1	56.5	8.7	81	23
12&15	.0	.0	4.4	33.3	46.7	15.6	82	45
18&21	.0	.0	.0	37.5	50.0	12.5	82	16
TOT	0	0	4	42	54	13	81	113

PERIOD: (PRIMARY) 1889-1977
(OVER-ALL) 1868-1977

AREA 0010 SAMOA ISLANDS
13.8S 171.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
4	.0	.0	.8	1.6	3	.0	2.4
3	.0	.0	2.4	.0	3	.0	2.4
2	.0	.8	2.4	.0	4	.0	3.2
1	.0	1.6	3.2	.0	6	.0	4.8
0	.0	3.2	14.4	.0	22	.0	17.6
-1	.0	12.0	4.8	.0	21	.0	16.8
-2	.8	13.6	4.8	.8	25	.0	20.0
-3	.0	14.4	.0	.0	18	.0	14.4
-4	.8	4.8	.0	.0	7	.0	5.6
-5	1.6	4.0	.0	.0	7	.0	5.6
-6	.8	3.2	.0	.0	5	.0	4.0
-7/-8	.8	2.4	.0	.0	4	.0	3.2
TOTAL	6	75	41	3	125	0	125
PCT	4.8	60.0	32.8	2.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.0	1.0	.0	.0	.0	1.0
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	1.4	.0	.0	.0	3.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.3	6.6	.0	.0	.0	13.9
3-4	.0	8.0	13.2	.0	.0	.0	21.2
5-6	.0	1.0	7.3	1.0	.0	.0	9.4
7	.0	.0	2.4	1.0	.0	.0	3.5
8-9	.0	.0	1.0	2.4	.0	.0	3.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	16.3	30.6	4.5	.0	.0	51.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.7	3.5	2.1	.0	.0	.0	6.3
3-4	.0	3.8	6.6	.0	.0	.0	10.4
5-6	.0	.3	2.1	1.7	.0	.0	4.2
7	.0	.0	2.1	.3	.0	.0	2.4
8-9	.0	.0	.7	.3	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.0	13.5	2.4	.0	.0	25.7

PERIOD: (OVER-ALL) 1963-1977

AUGUST

AREA 0010 SAMOA ISLANDS
13.8S 171.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	2.1	.0	1.0	.0	.0	.0	3.1
3-4	.0	2.1	1.4	.0	.0	.0	3.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.0	1.4	.0	.0	2.4
8-9	.0	.0	1.0	.0	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	2.1	4.5	1.4	.0	.0	10.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	4.2	.0	.0	.0	.0	5.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	4.2	.0	.0	.0	.0	5.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	1.4	.0	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	.3	.0	.0	.0	.0	.3	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.7	.0	.0	.0	.0	1.7	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	2.8	.0	.0	.0	.0	2.8	
1-2	4.2	18.1	9.7	.0	.0	.0	31.9	
3-4	.0	15.3	22.2	.0	.0	.0	37.5	
5-6	.0	1.4	9.7	2.8	.0	.0	13.9	
7	.0	.0	5.6	2.8	.0	.0	8.3	
8-9	.0	.0	2.8	2.8	.0	.0	5.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	37.5	50.0	8.3	.0	.0	100.0	72

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	3.2	10.6	5.3	2.1	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
6-7	.0	1.1	3.2	10.6	9.6	4.3	2.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	6
8-9	.0	.0	1.1	4.3	8.5	5.3	4.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	8
10-11	.0	1.1	.0	1.1	2.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	11
>13	.0	1.1	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
INDET	2.1	.0	4.3	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
TOTAL	4	6	18	21	23	11	7	1	3	0	0	0	0	0	0	0	0	0	0	94	6
PCT	4.3	6.4	19.1	22.3	24.5	11.7	7.4	1.1	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1948-1977
(OVER-ALL) 1869-1977

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14.0S 170.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		100.0
NE	18.2	.0	.0	.0	.0	.0	.0	18.2	27.3	.0	.0	.0	.0		.0		54.5
E	3.0	1.5	.0	.0	.0	.0	.0	4.5	.0	1.5	.0	.0	.0		.0		94.0
SE	3.5	.0	.0	.0	.0	.0	.0	3.5	3.5	.0	.0	.0	.0		.0		93.0
S	11.4	.0	11.4	.0	.0	.0	.0	22.9	.0	.0	.0	.0	.0		.0		77.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		100.0
TOT PCT	5.0	.8	.8	.0	.0	.0	.0	6.7	3.3	.8	.0	.0	.0		.0		89.2
TOT OBS:	120																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
00&03	3.1	3.1	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0		.0		93.8
06&09	5.6	.0	.0	.0	.0	.0	.0	5.6	5.6	.0	.0	.0	.0		.0		88.9
12&15	4.0	.0	2.0	.0	.0	.0	.0	6.0	2.0	2.0	.0	.0	.0		.0		90.0
18&21	10.0	.0	.0	.0	.0	.0	.0	10.0	10.0	.0	.0	.0	.0		.0		80.0
TOT PCT	5.0	.8	.8	.0	.0	.0	.0	6.7	3.3	.8	.0	.0	.0		.0		89.2
TOT OBS:	120																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	1.8	1.1	.0	.0	.0		2.9	10.0	5.3	.0	.0	.0	3.7	.0	.0	.0
NE	.0	5.4	4.5	.0	.0	.0		9.9	9.8	14.4	20.0	12.5	.0	5.3	.0	9.1	.0
E	.6	21.6	24.4	5.2	.0	.0		51.8	13.0	52.9	.0	61.1	.0	64.4	34.4	37.5	.0
SE	1.3	9.3	12.5	2.8	.0	.0		25.8	13.3	19.2	80.0	11.1	100.0	16.0	65.6	40.9	100.0
S	.0	3.4	2.9	.5	.0	.0		6.8	10.8	6.3	.0	9.7	.0	8.0	.0	8.0	.0
SW	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.6	.0	.0	.0	.0	.0		.6	2.0	1.9	.0	.0	.0	.0	.0	.0	.0
NW	.6	.2	.0	.0	.0	.0		.8	3.4	.0	.0	5.6	.0	.5	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.0	.0	.0	.0	2.1	.0	4.5	.0
TOT OBS	7	64	70	13	0	0	154		12.2	52	5	18	1	47	8	22	1
TOT PCT	4.5	41.6	45.5	8.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.1	1.3	.5	.0	.0		2.9	10.0	4.8	.0	3.2	.0
NE	2.8	7.0	.2	.0	.0		9.9	9.8	14.9	11.8	4.5	8.7
E	7.3	31.3	12.7	.5	.0		51.8	13.0	48.2	57.9	60.0	35.9
SE	4.7	13.3	7.0	.8	.0		25.8	13.3	24.6	15.8	23.2	43.5
S	3.4	1.6	1.8	.0	.0		6.8	10.8	5.7	9.2	6.8	7.6
SW	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
W	.6	.0	.0	.0	.0		.6	2.0	1.8	.0	.0	.0
NW	.8	.0	.0	.0	.0		.8	3.4	.0	5.3	.5	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.0	.0	1.8	4.3
TOT OBS	34	84	34	2	0	154		12.2	57	19	55	23
TOT PCT	22.1	54.5	22.1	1.3	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	3.5	43.9	47.4	5.3	.0	.0	11.8	100.0	57
06&09	.0	5.3	42.1	42.1	10.5	.0	.0	12.6	100.0	19
12&15	1.8	3.6	30.9	52.7	10.9	.0	.0	13.1	100.0	55
18&21	4.3	.0	60.9	26.1	8.7	.0	.0	10.6	100.0	23
TOT	2	5	64	70	13	0	0	12.2		154
PCT	1.3	3.2	41.6	45.5	8.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.7	.0	.0		1.8
NE	.0	2.9	4.0	1.9		5.5
E	14.0	16.2	22.6	4.3		4.2
SE	3.3	6.9	9.3	2.4		4.9
S	.7	2.6	4.0	1.0		5.4
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	1.0	.2	.0	.0		2.2
VAR	.0	.0	.0	.0		.0
CALM	.0	1.0	.0	.0		3.0
TOT OBS	21	32	42	10	105	4.5
TOT PCT	20.0	30.5	40.0	9.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
NE	.0	.0	.0	.0	2.9	2.9	.0	.0	.0	.0	3.1	
E	.0	.0	1.9	2.6	9.3	2.4	.0	.0	.0	.0	41.0	
SE	.0	.0	1.0	4.6	2.1	2.1	.0	.0	.0	.0	12.6	
S	.0	.0	1.0	.0	1.0	2.1	.0	.0	.0	.0	4.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
TOT OBS	0	0	4	7	16	10	0	0	0	0	68	105
TOT PCT	.0	.0	3.8	6.7	15.2	9.5	.0	.0	.0	.0	64.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	6.8	9.7	9.7	9.7	9.7	9.7	9.7	9.7
* OR >1000	19.4	23.3	24.3	25.2	25.2	25.2	25.2	25.2
* OR >600	25.2	30.1	31.1	32.0	32.0	32.0	32.0	32.0
* OR >300	28.2	34.0	35.0	35.9	35.9	35.9	35.9	35.9
* OR >150	28.2	34.0	35.0	35.9	35.9	35.9	35.9	35.9
* OR > 0	28.2	34.0	35.0	35.9	35.9	35.9	35.9	35.9
TOTAL	29	35	36	37	37	37	37	37

TOTAL NUMBER OF OBS: 103 PCT FREQ NH <5/8: 64.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.7	14.3	16.1	16.1	17.0	8.9	12.5	6.3	6.3	.0	112

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
2<5	PCP	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
5<10	PCP	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	1.7	
	NO PCP	.0	.8	2.9	2.1	.0	.0	.0	.0	.0	.0	5.8	
	TOT %	.0	1.7	2.9	2.9	.0	.0	.0	.0	.0	.0	7.5	
10+	PCP	.0	.8	1.7	.0	1.7	.0	.0	.0	.0	.0	4.2	
	NO PCP	1.5	6.7	49.4	20.8	5.6	.0	.0	1.0	.0	1.7	86.7	
	TOT %	1.5	7.5	51.0	20.8	7.3	.0	.0	1.0	.0	1.7	90.8	
	TOT OBS												120
	TOT PCT	1.5	9.2	55.6	23.8	7.3	.0	.0	1.0	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.8	.0	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.8	.0	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.8	2.1	2.1	.0	.0	.0	.0	.0		5.0	
	11-21	.0	.8	.8	.8	.0	.0	.0	.0	.0		2.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	1.7	2.9	2.9	.0	.0	.0	.0	.0	.0	7.5	
10+	0-3	.0	.0	.0	.8	.0	.0	.0	.8	.0	1.7	3.3	
	4-10	1.5	3.5	20.6	7.1	2.9	.0	.0	.2	.0		35.8	
	11-21	.0	4.0	23.2	10.4	3.8	.0	.0	.0	.0		43.3	
	22+	.0	.0	5.2	2.5	.6	.0	.0	.0	.0		8.3	
	TOT %	1.5	7.5	51.0	20.8	7.3	.0	.0	1.0	.0	1.7	90.8	
	TOT OBS												120
	TOT PCT	1.5	9.2	55.6	23.8	7.3	.0	.0	1.0	.0	1.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.3	6.7	13.3	3.3	.0	.0	.0	.0	26.7	73.3	30
06&09	.0	.0	.0	.0	5.6	16.7	.0	.0	.0	.0	22.2	77.8	18
12&15	.0	.0	4.7	7.0	16.3	7.0	.0	.0	.0	.0	34.9	65.1	43
18&21	.0	.0	5.0	10.0	20.0	15.0	.0	.0	.0	.0	50.0	50.0	20
TOT	0	0	4	7	16	10	0	0	0	0	37	74	111
PCT	.0	.0	3.6	6.3	14.4	9.0	.0	.0	.0	.0	33.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	6.3	93.8	32
06&09	.0	.0	.0	.0	5.6	94.4	18
12&15	.0	.0	2.0	.0	8.0	90.0	50
18&21	.0	.0	.0	5.0	10.0	85.0	20
TOT	0	0	1	1	9	109	120
PCT	.0	.0	.8	.8	7.5	90.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.4	10.3	17.2	72.4	29
06&09	.0	.0	.0	22.2	77.8	18
12&15	.0	5.4	16.2	24.3	59.5	37
18&21	.0	5.3	21.1	31.6	47.4	19
TOT	0	4	13	24	66	103
PCT	.0	3.9	12.6	23.3	64.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.9	.0	.0	.0	1	.9
85/89	.0	.0	.0	.0	.9	2.6	1.7	.0	6	5.2
80/84	.0	.0	.0	.0	3.4	20.7	30.2	.9	64	55.2
75/79	.0	.0	.0	.0	3.4	5.2	21.6	7.8	44	37.9
70/74	.0	.0	.0	.0	.0	.0	.0	.9	1	.9
TOTAL	0	0	0	0	10	33	62	11	116	100.0
PCT	.0	.0	.0	.0	8.6	28.4	53.4	9.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
.0	1.7	3.4	.0	.0	.0	.0	.0	.0	.0
.0	4.7	35.3	8.8	4.5	.0	.0	.9	.0	.9
.6	3.0	14.7	14.9	3.7	.0	.0	.2	.0	.9
.0	.0	.0	.0	.9	.0	.0	.0	.0	.0
.6	9.5	54.3	23.7	9.1	.0	.0	1.1	.0	1.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	88	82	78	78	78	82.4	57
06&09	82	81	81	80	76	76	76	79.9	19
12&15	82	81	81	79	75	75	75	79.2	55
18&21	82	81	81	79	75	74	74	78.7	23
TOT	90	89	86	80	77	75	74	80.4	154

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	18.2	39.4	42.4	.0	77	33
06&09	.0	.0	.0	31.6	57.9	10.5	84	19
12&15	.0	.0	4.7	23.3	58.1	14.0	83	43
18&21	.0	.0	9.5	19.0	57.1	14.3	83	21
TOT	0	0	10	33	62	11	81	116

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.9	.0	.9	2	.0	1.8
7/8	.0	.0	.0	.9	.0	1	.0	.9
5	.0	.0	2.8	2.8	.0	6	.0	5.5
4	.0	.0	1.8	.0	.0	2	.0	1.8
3	.0	.9	.9	.9	.0	3	.0	2.8
2	.0	.9	3.7	.0	.0	5	.0	4.6
1	.0	.9	2.8	.0	.0	4	.0	3.7
0	.0	4.6	3.7	.0	.0	9	.0	8.3
-1	.0	11.9	7.3	.9	.0	22	.0	20.2
-2	.0	8.3	4.6	.0	.0	14	.0	12.8
-3	.0	12.8	2.8	.0	.0	17	.0	15.6
-4	.0	6.4	.0	.0	.0	7	.0	6.4
-5	1.8	8.3	.0	.0	.0	11	.0	10.1
-6	1.8	1.8	.0	.0	.0	4	.0	3.7
-7/-8	.9	.9	.0	.0	.0	2	.0	1.8
TOTAL	5	63	34	6	1	109	0	109
PCT	4.6	57.8	31.2	5.5	.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.8	.0	.0	.0	.0	5.8
3-4	.0	.0	5.8	.0	.0	.0	5.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	5.8	.0	.0	.0	11.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	14.4	3.8	.0	.0	.0	18.2
3-4	.0	4.8	20.5	1.4	.0	.0	26.7
5-6	.0	2.7	2.4	.0	.0	.0	5.1
7	.0	.0	1.0	1.4	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.4	.0	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	1.4	.0	.0	.0	1.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	21.9	29.1	4.1	.0	.0	55.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	4.8	3.1	.0	.0	.0	7.9
3-4	.0	4.8	2.4	.3	.0	.0	7.5
5-6	.0	1.4	1.7	.0	.0	.0	3.1
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.4	.0	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.3	7.9	1.7	.0	.0	21.9

PERIOD: (OVER-ALL) 1963-1977

SEPTEMBER

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	1.4	.0	.0	.0	2.4
3-4	.0	.0	1.4	1.0	.0	.0	2.4
5-6	.0	.0	2.7	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	5.5	1.0	.0	.0	7.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.4	.3	.0	.0	.0	.0	1.7	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	.3	.0	.0	.0	.0	1.7	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	2.7	.0	.0	.0	.0	4.1	
1-2	.0	27.4	8.2	.0	.0	.0	35.6	
3-4	.0	9.6	30.1	2.7	.0	.0	42.5	
5-6	.0	4.1	6.8	.0	.0	.0	11.0	
7	.0	.0	1.4	1.4	.0	.0	2.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	2.7	.0	.0	2.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	1.4	.0	.0	.0	1.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	43.8	47.9	6.8	.0	.0	100.0	73

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	9.7	8.6	4.3	2.2	1.1	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
6-7	.0	1.1	9.7	12.9	5.5	2.2	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	5
8-9	.0	1.1	4.3	3.2	8.6	4.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
10-11	.0	.0	.0	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	1.1	2.2	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
TOTAL	1	11	22	23	18	9	5	0	2	0	0	0	0	0	0	0	0	0	0	93	5
PCT	1.1	11.8	23.7	26.9	19.4	9.7	5.4	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1876-1977

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	1.4	3.6	.0	.0	.0	.0	.0	7.0	8.5	5.6	.0	.0	.0		.0	78.9
E	4.2	5.0	2.3	.0	.0	.0	.0	11.5	6.5	.0	.0	.0	.0		.0	82.1
SE	.4	4.8	.9	.0	.0	.0	.0	6.1	5.7	.0	.0	.0	.0		.0	88.2
S	17.9	20.5	.0	.0	.0	.0	.0	38.5	.0	.0	.0	.0	.0		.0	61.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0		.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0		.0	90.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	3.0	5.4	1.2	.0	.0	.0	.0	9.6	6.0	.6	.0	.0	.0		.0	83.7
TOT OBS:	166															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.6	10.5	2.6	.0	.0	.0	.0	15.8	2.6	.0	.0	.0	.0		.0	81.6
06&09	2.3	4.5	2.3	.0	.0	.0	.0	9.1	11.4	.0	.0	.0	.0		.0	79.5
12&15	6.6	3.3	.0	.0	.0	.0	.0	9.8	4.9	3.3	.0	.0	.0		.0	82.0
18&21	.0	3.0	.0	.0	.0	.0	.0	3.0	3.0	.0	.0	.0	.0		.0	93.9
TOT PCT	3.4	5.1	1.1	.0	.0	.0	.0	9.7	5.7	1.1	.0	.0	.0		.0	83.5
TOT OBS:	176															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	1.5	.9	.0	.0	.0		2.4	10.0	2.2	.0	3.5	.0	1.9	.0	3.1	.0
NE	1.1	6.3	2.7	1.1	.0	.0		11.0	10.8	15.2	.0	10.5	.0	4.8	16.7	14.8	50.0
E	1.5	10.5	25.9	2.0	.0	.0		39.9	13.6	42.4	62.5	37.2	66.7	46.2	33.3	28.1	.0
SE	1.7	8.1	20.5	2.9	1.1	.0		34.3	14.7	31.0	37.5	37.2	.0	32.2	33.3	40.6	50.0
S	.0	3.2	1.6	.4	.0	.0		5.2	11.7	4.9	.0	4.1	.0	4.8	.0	10.2	.0
SW	.0	.7	.0	.0	.0	.0		.7	9.0	.0	.0	.0	.0	2.4	.0	.0	.0
W	.0	.4	.0	.0	.0	.0		.4	10.0	.0	.0	1.7	.0	.0	.0	.0	.0
NW	.5	.8	.0	.0	.0	.0		1.3	7.0	.0	.0	3.5	33.3	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0	4.3	.0	2.3	.0	7.7	16.7	3.1	.0
TOT OBS	18	59	97	12	2	0	188		12.7	46	4	43	3	52	6	32	2
TOT PCT	9.6	31.4	51.6	6.4	1.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.5	1.9	.0	.0	.0		2.4	10.0	2.0	3.3	1.7	2.9
NE	2.7	6.6	1.2	.5	.0		11.0	10.8	14.0	9.8	6.0	16.9
E	5.3	21.0	13.2	.4	.0		39.9	13.6	44.0	39.1	44.8	26.5
SE	4.3	19.5	9.2	.8	.5		34.3	14.7	31.5	34.8	32.3	41.2
S	1.5	2.9	.4	.4	.0		5.2	11.7	4.5	3.8	4.3	9.6
SW	.1	.5	.0	.0	.0		.7	9.0	.0	.0	2.2	.0
W	.0	.4	.0	.0	.0		.4	10.0	.0	1.6	.0	.0
NW	.5	.8	.0	.0	.0		1.3	7.0	.0	5.4	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.8						4.8	.0	4.0	2.2	8.6	2.9
TOT OBS	37	101	45	4	1	188		12.7	50	46	58	34
TOT PCT	19.7	53.7	23.9	2.1	.5		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1876-1977

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	4.0	2.0	24.0	60.0	8.0	2.0	.0	14.6	100.0	50
06&09	2.2	10.9	43.5	37.0	6.5	.0	.0	10.6	100.0	46
12&15	8.6	3.4	22.4	56.9	8.6	.0	.0	12.8	100.0	58
18&21	2.9	2.9	41.2	50.0	.0	2.9	.0	12.6	100.0	34
TOT	9	9	59	97	12	2	0	12.7		188
PCT	4.8	4.8	31.4	51.6	6.4	1.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.4	.0	.5		3.0
NE	3.4	2.4	5.1	1.2		4.3
E	6.3	11.0	13.5	7.3		5.0
SE	3.4	9.1	14.4	7.1		5.3
S	.5	.5	2.0	2.9		6.3
SW	.0	.7	.2	.0		3.6
W	.0	.0	.0	.5		8.0
NW	.2	.7	.7	.2		4.1
VAR	.0	.0	.0	.0		.0
CALM	.7	2.0	1.4	.0		4.5
TOT OBS	23	41	55	29	148	5.0
TOT PCT	15.5	27.7	37.2	19.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	2.5	
NE	.0	.0	.0	.0	1.5	1.9	.0	.0	.0	.0	8.6	
E	.0	.0	1.2	3.0	6.1	.3	.0	.0	.7	.0	26.7	
SE	.0	.7	2.4	5.7	4.1	1.7	1.4	.0	.0	.0	18.1	
S	.0	.7	.5	.7	.5	1.0	.0	.0	.0	.0	2.5	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
W	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	3.4	
TOT OBS	0	2	6	19	19	8	2	0	1	0	95	148
TOT PCT	.0	1.4	4.1	10.1	12.8	5.4	1.4	.0	.7	.0	64.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	OR >0
* OR >6500	.0	.6	.6	.6	.6	.6	.6	.6
* OR >3000	.0	.6	.6	.6	.6	.6	.6	.6
* OR >1500	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >2000	5.1	7.7	7.7	7.7	7.7	7.7	7.7	7.7
* OR >1000	15.4	20.5	22.4	22.4	22.4	22.4	22.4	22.4
* OR >600	23.1	29.5	32.1	32.1	32.1	32.1	32.1	32.1
* OR >300	25.6	32.7	35.3	35.3	35.3	35.3	35.9	35.9
* OR >150	25.6	33.3	35.9	36.5	36.5	36.5	37.2	37.2
* OR ≥ 0	25.6	33.3	35.9	36.5	36.5	36.5	37.2	37.2
TOTAL	40	52	56	57	57	57	58	58

TOTAL NUMBER OF OBS: 156 PCT FREQ NH <5/8: 62.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.9	7.5	18.8	17.5	17.5	8.8	7.5	8.1	12.5	.0	160

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PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1876-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	
2<5	PCP	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	.0	.0	1.1	.8	.0	.0	.0	.0	.0	.0	1.8	
	TOT %	.0	.6	1.7	.8	.0	.0	.0	.0	.0	.0	3.0	
5<10	PCP	.0	.0	.6	.2	1.1	.0	.0	.0	.0	.0	1.8	
	NO PCP	.0	2.4	4.2	5.3	1.4	.0	.0	.0	.0	.6	13.9	
	TOT %	.0	2.4	4.8	5.5	2.4	.0	.0	.0	.0	.6	15.8	
10+	PCP	.0	.2	2.7	2.0	.0	.0	.0	.0	.0	.0	4.8	
	NO PCP	2.7	7.6	29.8	26.4	2.3	.8	.5	1.5	.0	3.6	75.2	
	TOT %	2.7	7.7	32.6	28.3	2.3	.8	.5	1.5	.0	3.6	80.0	
	TOT OBS												165
	TOT PCT	2.7	10.8	39.7	34.5	5.3	.8	.5	1.5	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.6	.0	.0	.0	.0	.0	.0		.6	
	TOT %	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.6	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.6	.0	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.6	.6	.0	.0	.0	.0	.0		1.2	
	22+	.0	.6	.5	.2	.0	.0	.0	.0	.0		1.2	
	TOT %	.0	.6	1.7	.8	.0	.0	.0	.0	.0	.0	3.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	4-10	.0	2.4	1.8	1.8	.6	.0	.0	.0	.0		6.7	
	11-21	.0	.0	3.0	2.9	1.4	.0	.0	.0	.0		7.3	
	22+	.0	.0	.0	.8	.5	.0	.0	.0	.0		1.2	
	TOT %	.0	2.4	4.8	5.5	2.4	.0	.0	.0	.0	.6	15.8	
10+	0-3	.0	1.2	1.7	2.0	.0	.0	.0	.6	.0	3.6	9.1	
	4-10	1.7	4.1	8.9	6.2	1.8	.8	.5	.9	.0		24.8	
	11-21	1.1	2.4	20.8	16.5	.5	.0	.0	.0	.0		41.2	
	22+	.0	.0	1.2	3.6	.0	.0	.0	.0	.0		4.8	
	TOT %	2.7	7.7	32.6	28.3	2.3	.8	.5	1.5	.0	3.6	80.0	
	TOT OBS												165
	TOT PCT	2.7	10.8	39.7	34.5	5.3	.8	.5	1.5	.0	4.2	100.0	

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PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1876-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	2.9	5.7	8.6	17.1	2.9	.0	.0	.0	.0	37.1	62.9	35
06&09	.0	.0	4.7	4.7	16.3	11.6	.0	.0	2.3	.0	39.5	60.5	43
12&15	.0	.0	4.2	12.5	14.6	4.2	2.1	.0	.0	.0	37.5	62.5	48
18&21	.0	3.0	.0	12.1	9.1	3.0	3.0	.0	.0	.0	30.3	69.7	33
TOT	0	2	6	15	23	9	2	0	1	0	58	101	159
PCT	.0	1.3	3.8	9.4	14.5	5.7	1.3	.0	.6	.0	36.5	63.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	2.6	21.1	76.3	38
06&09	.0	.0	.0	.0	7.0	93.0	43
12&15	1.6	.0	.0	4.9	16.4	77.0	61
18&21	.0	.0	3.0	3.0	21.2	72.7	33
TOT	1	0	1	5	28	140	175
PCT	.6	.0	.6	2.9	16.0	80.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	8.6	20.0	17.1	62.9	35
06&09	.0	4.9	9.8	31.7	58.5	41
12&15	.0	4.3	21.3	17.0	61.7	47
18&21	.0	3.0	15.2	15.2	69.7	33
TOT	0	8	26	32	98	156
PCT	.0	5.1	16.7	20.5	62.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.3	.0	.0	.0	2	1.3
85/89	.0	.0	.0	.0	1.3	2.5	.6	.0	7	4.4
80/84	.0	.0	.0	.0	3.8	23.1	30.6	8.1	103	65.6
75/79	.0	.0	.0	.0	.0	3.8	10.0	13.8	44	27.5
70/74	.0	.0	.0	.0	.0	.0	.0	1.3	2	1.3
TOTAL	0	0	0	0	10	47	66	37	160	100.0
PCT	.0	.0	.0	.0	6.3	29.4	41.3	23.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0
.6	.6	1.6	.9	.0	.0	.0	.0	.0	.6
1.7	8.1	27.2	18.9	2.8	.6	.5	1.4	.0	4.4
.0	2.7	9.8	12.7	1.6	.2	.0	.0	.0	.6
.0	.0	.0	.2	1.1	.0	.0	.0	.0	.0
2.3	11.4	38.6	33.9	5.5	.8	.5	1.4	.0	5.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	93	92	88	82	76	74	74	82.4	53
06&09	90	89	84	81	77	75	75	80.8	47
12&15	83	82	82	80	76	74	74	79.5	64
18&21	84	83	83	81	76	75	75	80.6	34
TOT	93	88	86	81	76	74	74	80.8	198

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	17.1	43.9	26.8	12.2	78	41
06&09	.0	.0	4.8	23.8	40.5	31.0	84	42
12&15	.0	.0	1.7	26.7	45.0	26.7	85	60
18&21	.0	.0	.0	24.1	55.2	20.7	85	29
TOT	0	0	10	51	71	40	83	172

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PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1876-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.6	1	.0	.6
6	.0	.0	.0	.0	.6	.0	1	.0	.6
5	.0	.0	.0	1.2	.0	.0	2	.0	1.2
4	.0	.0	.6	1.2	.0	.0	3	.0	1.9
3	.0	.0	.6	.0	.0	.0	1	.0	.6
2	.0	1.2	1.2	1.2	.0	.0	6	.0	3.7
1	.0	.6	4.3	.6	.0	.0	9	.0	5.6
0	.0	2.5	8.6	.0	.0	.0	18	.0	11.1
-1	.0	3.7	11.1	.0	.0	.0	24	.0	14.8
-2	.0	6.8	8.6	.0	.0	.0	25	.0	15.4
-3	.0	6.2	6.2	.0	.0	.0	20	.0	12.3
-4	1.9	0.8	2.5	.0	.0	.0	18	.0	11.1
-5	.0	3.6	.0	.0	.0	.0	9	.0	5.6
-6	1.9	6.2	.6	.0	.0	.0	14	.0	8.6
-7/-8	1.9	3.7	.0	.0	.0	.0	9	.0	5.6
-9/-10	.6	.0	.0	.0	.0	.0	1	.0	.6
-11/-13	.6	.0	.0	.0	.0	.0	1	.0	.6
TOTAL	11		72		1			0	162
		70		7		1	162		
PCT	6.8	43.2	44.4	4.3	.6	.6	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	1.0	.0	.0	.0	1.9
3-4	.0	1.7	.0	.0	.0	.0	1.7
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	1.7	.0	.0	.0	4.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	2.1	.0	.0	.0	.0	4.0
1-2	.0	4.0	.0	.0	.0	.0	4.0
3-4	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	7.4	2.4	.0	.0	.0	11.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	4.0	.0	.0	.0	.0	5.0
1-2	.0	5.5	3.8	.0	.0	.0	9.3
3-4	.0	2.4	8.1	1.0	.0	.0	11.4
5-6	.0	1.0	9.3	.0	.0	.0	10.2
7	.0	.0	2.6	.0	.0	.0	2.6
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.0	.0	.0	1.0
13-16	.0	.0	1.0	.0	.0	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	12.9	24.8	2.6	.0	.0	41.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	1.4	.0	.0	.0	.0	3.3
1-2	.0	2.9	4.8	.0	.0	.0	7.6
3-4	.0	1.4	6.2	.0	.0	.0	7.6
5-6	.0	1.9	4.8	1.0	.0	.0	7.6
7	.0	.0	3.1	.2	.0	.0	3.3
8-9	.0	1.0	.0	.2	.0	.0	1.2
10-11	.0	.0	.0	1.9	.0	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	8.6	18.8	3.3	.0	.0	32.6

PERIOD: (OVER-ALL) 1963-1977 OCTOBER AREA 0010 SAMOA ISLANDS 14.0S 170.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.4	2.9	.0	.0	.0	4.3	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0
7	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	2.9	.7	.0	.0	5.0	.0	1.2	.0	.0	.0	.0	1.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	7.4	.0	.0	.0	.0	15.7	
1-2	1.9	13.9	9.3	.0	.0	.0	25.0	
3-4	.0	8.3	16.7	.9	.0	.0	25.9	
5-6	.0	3.7	16.7	.9	.0	.0	21.3	
7	.0	.0	5.6	.9	.0	.0	6.5	
8-9	.0	.9	.0	.9	.0	.0	1.9	
10-11	.0	.0	.0	1.9	.0	.0	1.9	
12	.0	.0	.0	.9	.0	.0	.9	
13-16	.0	.0	.9	.0	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								108
TOT PCT	10.2	34.3	49.1	6.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1951-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	4.9	14.7	11.2	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	4
6-7	.0	3.5	4.2	11.8	5.6	6.3	6.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	6
8-9	.0	.0	2.8	1.4	6.3	.7	2.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
10-11	.0	.7	.0	2.8	.0	1.4	.7	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	9	10
12-13	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
>13	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	3.5	.0	.7	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	2
TOTAL	7	13	32	40	19	14	14	2	1	0	0	0	0	1	0	0	0	0	0	143	5
PCT	4.9	9.1	22.4	28.0	13.3	9.8	9.8	1.4	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1956-1977
(OVER-ALL) 1869-1977

AREA 0010 SAMOA ISLANDS
14.1S 170.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	12.3	6.2	3.1	.0	.0	.0	.0	21.5	9.2	.0	.0	.0	.0	.0	.0	69.2
NE	.0	7.7	.0	.0	.0	.0	.0	7.7	15.4	.0	.0	.0	.0	.0	.0	76.9
E	.0	3.1	1.9	.0	.0	.0	.0	5.0	1.9	5.0	.0	.0	.0	.0	.0	88.1
SE	.0	3.5	.8	.0	.0	.0	.0	6.3	7.0	3.1	.0	.0	.0	.0	.0	83.6
S	.0	10.5	.0	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	.0	.0	89.5
SW	.0	36.4	.0	.0	.0	.0	.0	36.4	.0	.0	.0	.0	.0	.0	.0	63.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	14.8	.0	7.4	.0	.0	.0	.0	22.2	22.2	.0	.0	.0	.0	.0	.0	55.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
TOT PCT	2.2	5.9	1.5	.0	.0	.0	.0	9.6	6.6	2.2	.0	.0	.0	.0	.0	81.6
TOT OBS:	136															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	4.7	9.3	4.7	.0	.0	.0	.0	18.6	7.0	.0	.0	.0	.0	.0	.0	74.4
06&09	.0	.0	3.3	.0	.0	.0	.0	3.3	10.0	.0	.0	.0	.0	.0	.0	86.7
12&15	2.1	10.4	.0	.0	.0	.0	.0	12.5	4.2	8.3	.0	.0	.0	.0	.0	75.0
18&21	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	95.5
TOT PCT	2.1	6.3	2.1	.0	.0	.0	.0	10.5	6.3	2.8	.0	.0	.0	.0	.0	80.4
TOT OBS:	143															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	6.3	2.8	.6	.0	.0		10.9	10.0	19.2	30.8	10.0	.0	.0	.0	7.5	25.0
NE	.0	4.1	5.4	.6	.0	.0		10.1	11.3	16.3	3.6	13.3	.0	4.3	.0	10.0	25.0
E	1.3	15.2	13.9	.6	.0	.0		31.0	10.7	29.7	9.6	10.0	.0	45.1	25.0	47.5	37.5
SE	.0	11.7	10.6	1.3	.0	.0		23.6	12.0	23.8	7.7	35.0	.0	29.9	.0	7.5	12.5
S	.5	3.3	3.3	.0	.0	.0		7.1	10.1	.0	28.8	13.3	.0	5.4	.0	5.0	.0
SW	.9	1.7	.8	.0	.0	.0		3.5	7.7	4.7	7.7	1.7	.0	.5	37.5	1.3	.0
W	1.1	3.5	.5	.0	.0	.0		5.1	6.6	.0	7.7	10.0	.0	3.8	37.5	3.8	.0
NW	.2	2.2	1.3	1.3	.0	.0		4.9	12.8	4.1	3.8	3.3	.0	4.3	.0	12.5	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8							3.8	.0	2.3	.0	3.3	.0	6.5	.0	5.0	.0
TOT OBS	14	76	61	7	0	0	158		10.3	43	13	30	0	46	4	20	2
TOT PCT	8.9	48.1	38.6	4.4	.0	.0		100.0		100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	6.8	1.3	.0	.0		10.9	10.0	21.9	10.0	.0	9.1
NE	1.9	7.6	.6	.0	.0		10.1	11.3	13.4	13.3	4.0	11.4
E	7.9	19.3	3.8	.0	.0		31.0	10.7	25.0	10.0	43.5	46.6
SE	3.2	16.0	4.4	.0	.0		23.6	12.0	20.1	35.0	27.5	8.0
S	2.5	4.0	.6	.0	.0		7.1	10.1	6.7	13.3	5.0	4.5
SW	1.4	2.1	.0	.0	.0		3.5	7.7	5.4	1.7	3.5	1.1
W	2.7	2.4	.0	.0	.0		5.1	6.6	1.8	10.0	6.5	3.4
NW	1.6	2.1	.6	.6	.0		4.9	12.8	4.0	3.3	4.0	11.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.8						3.8	.0	1.8	3.3	6.0	4.5
TOT OBS	44	95	18	1	0	158		10.3	56	30	50	22
TOT PCT	27.8	60.1	11.4	.6	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1956-1977
(OVER-ALL) 1869-1977

AREA 0010 SAMOA ISLANDS
14.1S 170.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	3.6	46.4	44.6	3.6	.0	.0	11.1	100.0	56
06&09	3.3	6.7	60.0	26.7	3.3	.0	.0	9.3	100.0	30
12&15	6.0	2.0	44.0	44.0	4.0	.0	.0	10.3	100.0	50
18&21	4.5	13.6	45.5	27.3	9.1	.0	.0	10.0	100.0	22
TOT	6	8	76	61	7	0	0	10.3		158
PCT	3.8	5.1	48.1	38.6	4.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	1.1	4.9	4.1		6.3
NE	.4	2.1	6.8	.9		5.5
E	4.1	10.7	13.5	2.6		4.8
SE	3.0	8.3	10.0	4.3		4.9
S	.6	.6	2.8	1.7		5.9
SW	1.7	.2	.2	.2		2.7
W	.0	1.5	.9	1.5		6.0
NW	.0	1.1	1.1	3.6		6.7
VAR	.0	.0	.0	.0		.0
CALM	1.7	1.7	1.7	.0		3.1
TOT OBS	14	32	49	22	117	5.1
TOT PCT	12.0	27.4	41.9	18.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.7	.0	.0	.4	3.0	.0	.0	.0	.0	.0	5.3	
NE	.0	.0	.9	.0	3.0	.0	.9	.0	.0	.0	5.6	
E	.0	.0	.6	.6	4.1	.0	.0	.0	.0	.0	25.4	
SE	.0	.0	1.3	2.1	1.9	3.4	.0	.0	.0	.0	16.9	
S	.0	.0	.6	1.5	.0	.0	.0	.0	.0	.0	3.6	
SW	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	2.1	
W	.0	.0	.0	.0	.9	.0	.0	.6	.0	.0	2.4	
NW	.0	.0	.9	.4	.9	.9	.0	.0	.0	.0	2.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	4.3	
TOT OBS	2	0	5	6	16	6	1	1	0	0	80	117
TOT PCT	1.7	.0	4.3	5.1	13.7	5.1	.9	.9	.0	.0	68.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3000	.8	.8	.8	.8	.8	.8	.8	.8
* OR >3500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >2000	5.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6
* OR >1000	15.7	19.8	20.7	20.7	20.7	20.7	20.7	20.7
* OR >600	19.0	24.8	25.6	25.6	25.6	25.6	25.6	25.6
* OR >300	19.8	29.8	30.6	30.6	30.6	30.6	30.6	30.6
* OR >150	19.8	29.8	30.6	30.6	30.6	30.6	30.6	30.6
* OR > 0	19.8	31.4	32.2	32.2	32.2	32.2	32.2	32.2
TOTAL	24	38	39	39	39	39	39	39

TOTAL NUMBER OF OBS: 121 PCT FREQ NH <5/8: 67.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
.8	13.7	19.4	18.5	14.5	8.1	6.5	4.8	12.1	1.6	124

PERIOD: (PRIMARY) 1956-1977
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
5<10	PCP	2.6	.0	.0	.7	.7	1.5	.0	.4	.0	.0	5.9	
	NO PCP	2.6	1.1	1.5	2.4	.6	.4	1.8	.7	.0	.0	11.0	
	TOT %	5.1	1.1	1.5	3.1	1.3	1.8	1.8	1.1	.0	.0	16.9	
10+	PCP	.0	.0	1.5	.7	.0	.0	.0	.7	.0	.0	2.9	
	NO PCP	6.8	7.7	26.5	19.7	5.7	2.2	3.3	3.1	.0	4.4	79.4	
	TOT %	6.8	7.7	27.9	20.4	5.7	2.2	3.3	3.9	.0	4.4	82.4	
	TOT OBS												136
	TOT PCT	11.9	9.6	29.4	23.5	7.0	4.0	5.1	5.0	.0	4.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.7	.0	.0	.0	.0	.0	.0	.0		.7	
	TOT %	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	2.9	.0	1.5	.7	.0	1.8	1.8	.0	.0		8.8	
	11-21	1.5	1.1	.0	2.4	1.3	.0	.0	.4	.0		6.6	
	22+	.7	.0	.0	.0	.0	.0	.0	.7	.0		1.5	
	TOT %	5.1	1.1	1.5	3.1	1.3	1.8	1.8	1.1	.0	.0	16.9	
10+	0-3	.6	.0	.7	.0	.6	1.1	1.3	.2	.0	4.4	8.8	
	4-10	4.4	3.3	14.2	11.0	2.6	.2	1.5	1.8	.0		39.0	
	11-21	1.8	4.4	12.3	8.6	2.6	.9	.6	1.1	.0		32.4	
	22+	.0	.0	.7	.7	.0	.0	.0	.7	.0		2.2	
	TOT %	6.8	7.7	27.9	20.4	5.7	2.2	3.3	3.9	.0	4.4	82.4	
	TOT OBS												136
	TOT PCT	11.9	9.6	29.4	23.5	7.0	4.0	5.1	5.0	.0	4.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	5.9	.0	2.9	2.9	11.8	5.9	.0	.0	.0	.0	29.4	70.6	34
06&09	.0	.0	3.6	7.1	14.3	.0	3.6	.0	.0	.0	28.6	71.4	28
12&15	.0	.0	7.9	7.9	15.8	7.9	.0	2.6	.0	.0	42.1	57.9	38
18&21	.0	.0	4.5	.0	13.6	4.5	.0	.0	.0	.0	22.7	77.3	22
TOT	2	0	6	6	17	6	1	1	0	0	39	83	122
PCT	1.6	.0	4.9	4.9	13.9	4.9	.8	.8	.0	.0	32.0	68.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	27.9	72.1	43
06&09	.0	.0	.0	.0	6.7	93.3	30
12&15	2.1	.0	.0	2.1	18.8	77.1	48
18&21	.0	.0	.0	.0	4.5	95.5	22
TOT	1	0	0	1	24	117	143
PCT	.7	.0	.0	.7	16.8	81.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	6.1	9.1	12.1	18.2	69.7	33
06&09	.0	3.6	10.7	17.9	71.4	28
12&15	.0	7.9	18.4	23.7	57.9	38
18&21	.0	4.5	4.5	18.2	77.3	22
TOT	2	8	15	24	82	121
PCT	1.7	6.6	12.4	19.8	67.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	3.4	5.1	.8	.0	11	9.3
80/84	.0	.0	.0	.0	5.1	24.6	36.4	3.4	82	69.5
75/79	.0	.0	.0	.0	.0	4.2	9.3	5.9	23	19.5
70/74	.0	.0	.0	.0	.0	.8	.0	.8	2	1.7
TOTAL	0	0	0	0	10	41	55	12	118	100.0
PCT	.0	.0	.0	.0	8.5	34.7	46.6	10.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	2.1	4.7	1.3	.0	.8	.0	.0	.0	.0
7.8	4.7	24.6	16.5	4.2	.6	4.9	1.9	.0	4.2
.8	1.7	5.3	6.1	2.1	.2	.6	1.7	.0	.8
.8	.0	.8	.0	.0	.0	.0	.0	.0	.0
10.0	8.5	35.4	23.9	6.4	1.7	5.5	3.6	.0	5.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	87	87	83	78	74	74	82.9	56
06&09	88	87	84	81	77	74	74	81.4	30
12&15	85	84	82	80	76	76	76	80.0	52
18&21	84	83	83	81	78	73	73	80.9	23
TOT	88	87	87	81	77	74	73	81.4	161

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	13.3	43.3	30.0	13.3	79	30
06&09	.0	.0	13.0	39.1	34.8	13.0	80	23
12&15	.0	.0	6.0	26.0	58.0	10.0	82	50
18&21	.0	.0	.0	38.1	57.1	4.8	81	21
TOT	0	0	10	43	58	13	81	124

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.8	.0	1	.0	.8
6	.0	.0	.8	.8	2	.0	1.6
4	.0	.0	.0	1.6	2	.0	1.6
3	.0	.0	.0	2.3	3	.0	2.3
2	.0	.0	3.1	3.1	8	.0	6.2
1	.0	1.6	3.9	2.3	10	.0	7.8
0	.8	2.3	10.9	.0	18	.0	14.0
-1	.0	2.3	11.6	.0	18	.0	14.0
-2	.0	5.4	8.5	.0	18	.0	14.0
-3	.0	7.8	3.1	.0	14	.0	10.9
-4	.8	7.0	4.7	.0	16	.0	12.4
-5	.0	.8	3.9	.0	6	.0	4.7
-6	1.6	.0	3.1	.0	6	.0	4.7
-7/-8	.0	4.7	.0	.0	6	.0	4.7
-9/-10	.8	.0	.0	.0	1	.0	.8
TOTAL	5		70			0	129
		41		13	129		
PCT	3.9	31.8	54.3	10.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.0	3.2	1.3	.0	.0	.0	5.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.3	1.3	1.3	.0	.0	3.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.5	2.6	1.3	.0	.0	9.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	1.3	.0	.0	.0	2.6
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.3	1.3	.0	.0	.0	2.6
5-6	.0	.0	2.6	1.3	.0	.0	3.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	5.1	1.3	.0	.0	9.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	8.0	.0	.0	.0	.0	8.0
1-2	1.3	6.1	5.1	.0	.0	.0	12.5
3-4	.0	8.3	3.8	.0	.0	.0	12.2
5-6	.0	.0	3.2	.0	.0	.0	3.2
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	22.4	13.5	.0	.0	.0	37.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	5.8	2.9	.0	.0	.0	8.7
5-6	.0	.0	3.8	.0	.0	.0	3.8
7	.0	.0	2.6	1.3	.0	.0	3.8
8-9	.0	.0	1.3	.0	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.7	10.6	1.3	.0	.0	20.5

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	.0	3.5	.0	.0	.0	3.5
5-6	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	5.4	.0	.0	.0	8.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	.0	.0	.0	.0	.0	1.3
1-2	.0	.3	1.3	.0	.0	.0	1.6
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	.3	1.6	.0	.0	.0	3.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.3	1.0	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	1.0	.0	.0	.0	2.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.3	1.9	.0	.0	.0	.0	2.2	
3-4	.0	.0	.0	1.3	.0	.0	1.3	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	1.3	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.9	.0	2.6	.0	.0	4.8	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	10.0	1.3	.0	.0	.0	17.5	
1-2	2.5	17.5	7.5	.0	.0	.0	27.5	
3-4	.0	16.3	12.5	1.3	.0	.0	30.0	
5-6	.0	1.3	12.5	2.5	.0	.0	16.3	
7	.0	.0	3.8	2.5	.0	.0	6.3	
8-9	.0	.0	1.3	.0	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	1.3	.0	.0	.0	1.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.8	45.0	40.0	6.3	.0	.0	100.0	80

PERIOD: (OVER-ALL) 1956-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	10.8	18.9	6.3	4.5	2.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	4
6-7	.0	.9	9.9	9.9	5.4	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	5
8-9	.0	.0	1.8	2.7	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
10-11	.0	.0	.9	1.8	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	.9	.9	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
>13	.0	.0	.0	.0	3.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
INDET	4.5	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	1
TOTAL	6	13	36	26	20	7	2	0	0	1	0	0	0	0	0	0	0	0	0	111	4
PCT	5.4	11.7	32.4	23.4	18.0	6.3	1.8	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1871-1977

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	3.3	13.0	4.3	.0	.0	.0	.0	20.7	.0	.0	.0	.0	.0	.0	.0	79.3
NE	.0	7.7	.0	.0	.0	.0	.0	7.7	4.3	3.4	.0	.0	.0	.0	.0	84.6
E	2.6	9.9	.0	.0	.0	.0	.0	12.5	9.2	2.0	.0	.0	.0	.0	.0	76.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.0	.0	.0	.0	.0	.0	97.0
S	.0	13.6	18.2	.0	.0	.0	.0	31.8	13.6	.0	.0	.0	.0	.0	.0	54.5
SW	14.3	3.6	14.3	.0	.0	.0	.0	32.1	14.3	.0	.0	.0	.0	.0	.0	53.6
W	29.6	.0	.0	.0	.0	.0	.0	29.6	.0	.0	.0	.0	.0	.0	.0	70.4
NW	15.9	8.7	.0	.0	.0	.0	.0	19.6	17.4	.0	.0	.0	.0	.0	.0	63.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.0	7.3	2.0	.0	.0	.0	.0	13.2	6.0	1.3	.0	.0	.0	.0	.0	79.5
TOT OBS:	151															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	2.3	9.1	.0	.0	.0	.0	.0	11.4	9.1	.0	.0	.0	.0	.0		79.5
06&09	8.3	4.2	.0	.0	.0	.0	.0	12.5	4.2	4.2	.0	.0	.0	.0		79.2
12&15	3.2	4.8	4.8	.0	.0	.0	.0	12.9	4.8	1.6	.0	.0	.0	.0		80.6
18&21	4.2	12.5	.0	.0	.0	.0	.0	16.7	4.2	.0	.0	.0	.0	.0		79.2
TOT PCT	3.9	7.1	1.9	.0	.0	.0	.0	13.0	5.8	1.3	.0	.0	.0	.0		79.9
TOT OBS:	154															

TABLE 3

PERCENTAGE FREQUENCY OR WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	9.8	5.2	.4	.4	.0		15.8	10.6	11.1	29.2	14.6	50.0	18.4	11.1	15.2	33.3
NE	.0	8.8	9.5	1.7	.0	.0		20.0	12.4	31.0	.0	21.9	50.0	20.8	5.6	1.1	.0
E	1.1	12.8	12.2	.0	.0	.0		26.1	10.7	24.5	16.7	21.9	.0	32.5	16.7	27.2	33.3
SE	.6	7.6	7.0	.0	.0	.0		15.2	11.1	14.8	23.0	22.9	.0	12.7	13.9	15.2	.0
S	.6	3.0	.6	.0	.0	.0		4.2	6.8	4.6	8.3	4.2	.0	3.3	8.3	3.3	.0
SW	.6	3.0	.0	.6	.0	.0		4.2	8.5	4.6	.0	4.2	.0	4.2	.0	2.2	33.3
W	.0	3.9	.6	.0	.0	.0		4.5	7.5	5.6	16.7	.0	.0	1.9	.0	12.0	.0
NW	.0	4.6	1.1	.7	.1	.0		6.6	11.0	1.9	4.2	10.4	.0	6.1	.0	19.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	1.9	.0	.0	.0	.0	44.4	4.3	.0
TOT OBS	11	93	63	6	1	0	174		10.3	54	6	24	2	53	9	23	3
TOT PCT	6.3	53.4	36.2	3.4	.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	11.8	.4	.4	.0		15.8	10.6	12.9	17.3	17.3	17.3
NE	3.0	13.5	2.9	.6	.0		20.0	12.4	27.9	24.0	18.5	1.0
E	5.9	17.2	3.0	.0	.0		26.1	10.7	23.8	20.2	30.2	27.9
SE	4.9	7.6	2.7	.0	.0		15.2	11.1	15.8	21.2	12.9	13.5
S	2.2	2.0	.0	.0	.0		4.2	6.8	5.0	3.8	4.0	2.9
SW	1.6	2.0	.6	.0	.0		4.2	8.5	4.2	3.8	3.6	5.8
W	2.2	2.3	.0	.0	.0		4.5	7.5	6.7	.0	1.6	10.6
NW	.7	5.0	.7	.1	.0		6.6	11.0	2.1	9.6	5.2	17.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	1.7	.0	6.5	3.8
TOT OBS	47	107	18	2	0	174		10.3	60	26	62	26
TOT PCT	27.0	61.5	10.3	1.1	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1871-1977

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14.0S 170.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	1.7	.0	53.3	40.0	5.0	.0	.0	10.7	100.0	60
06609	.0	.0	69.2	30.8	.0	.0	.0	10.1	100.0	26
12615	6.5	4.8	46.8	40.3	1.6	.0	.0	10.2	100.0	62
18621	3.8	7.7	53.8	23.1	7.7	3.8	.0	10.0	100.0	26
TOT	6	5	93	63	6	1	0	10.3		174
PCT	3.4	2.9	53.4	36.2	3.4	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	2.7	7.3	3.4		5.6
NE	5.7	2.3	5.9	6.5		5.2
E	5.0	5.5	9.7	5.2		5.0
SE	4.0	3.2	7.6	1.0		4.7
S	.0	.6	1.3	1.9		6.6
SW	.8	.2	1.9	2.5		6.3
W	.0	.0	2.1	2.3		7.2
NW	.8	.8	4.6	2.5		6.0
VAR	.0	.0	.0	.0		.0
CALM	.0	1.5	.0	.0		3.0
TOT OBS	23	22	53	33	131	5.4
TOT PCT	17.6	16.8	40.5	25.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.6	1.9	2.7	.8	.0	.0	.0	.0	9.2	
NE	.8	.0	.8	.8	1.9	.8	.8	.0	.8	.0	13.9	
E	.0	2.3	.0	1.9	2.1	1.3	.0	.0	.0	.0	18.1	
SE	.0	.0	.0	1.9	1.7	1.0	.0	.0	.0	.0	11.6	
S	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	1.9	
SW	.0	.0	.0	1.9	.2	.0	.0	.0	.0	.0	3.6	
W	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	2.9	
NW	.0	.0	.2	1.9	2.5	.0	.0	.0	.0	.0	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
TOT OBS	1	3	2	12	18	5	1	0	1	0	88	131
TOT PCT	.8	2.3	1.5	9.2	13.7	3.8	.8	.0	.8	.0	67.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
= OR >3500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >2000	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
= OR >1000	15.0	19.5	20.3	20.3	20.3	20.3	20.3	20.3
= OR >600	21.1	28.6	29.3	29.3	29.3	29.3	29.3	29.3
= OR >300	21.8	29.3	30.8	30.8	30.8	30.8	30.8	30.8
= OR >150	21.8	30.1	32.3	32.3	33.1	33.1	33.1	33.1
= OR > 0	21.8	30.1	32.3	33.1	33.8	33.8	33.8	33.8
TOTAL	29	40	43	44	45	45	45	45

TOTAL NUMBER OF OBS: 133

PCT FREQ NH <5/8: 66.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.0	13.4	19.4	14.9	15.7	4.5	6.0	7.5	15.7	.0	134

DECEMBER

PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1871-1977

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
2<5	PCP	.5	.0	.7	.0	.0	.0	.7	.8	.0	.0	2.6	
	NO PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.5	.0	.7	.7	.0	.0	.7	.8	.0	.0	3.3	
5<10	PCP	2.6	.0	1.3	.0	.7	1.3	.0	.7	.0	.0	6.6	
	NO PCP	1.2	.3	1.7	.8	.5	.7	.7	.2	.0	.0	6.0	
	TOT %	3.8	.3	3.0	.8	1.2	2.0	.7	.8	.0	.0	12.6	
10+	PCP	.0	.8	.5	.0	.5	.2	.7	.0	.0	.0	2.6	
	NO PCP	10.9	17.5	20.4	15.1	2.0	2.5	2.5	6.0	.0	3.3	80.1	
	TOT %	10.9	18.4	20.9	15.1	2.5	2.6	3.1	6.0	.0	3.3	82.8	
	TOT OBS												151
	TOT PCT	15.2	19.4	25.2	16.6	3.6	4.6	4.5	7.6	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.7	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.7	.0	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.7	.0	.0	.0	.7	.7	.0		2.0	
	11-21	.0	.0	.0	.7	.0	.0	.0	.0	.0		.7	
	22+	.5	.0	.0	.0	.0	.0	.0	.2	.0		.7	
	TOT %	.5	.0	.7	.7	.0	.0	.7	.8	.0	.0	3.3	
5<10	0-3	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
	4-10	2.0	.3	1.7	.2	.5	1.3	.7	.7	.0		7.3	
	11-21	1.3	.0	1.3	.7	.0	.0	.0	.0	.0		3.3	
	22+	.5	.0	.0	.0	.0	.7	.0	.2	.0		1.3	
	TOT %	3.8	.3	3.0	.8	1.2	2.0	.7	.8	.0	.0	12.7	
10+	0-3	.0	.0	1.3	.7	.0	.7	.0	.0	.0	3.3	6.0	
	4-10	8.0	8.5	8.2	7.7	1.8	2.0	2.5	4.0	.0		42.7	
	11-21	3.0	8.7	11.5	6.8	.7	.0	.7	1.3	.0		32.7	
	22+	.0	1.3	.0	.0	.0	.0	.0	.0	.0		1.3	
	TOT %	11.0	18.5	21.0	15.2	2.5	2.7	3.2	5.3	.0	3.3	82.7	
	TOT OBS												150
	TOT PCT	15.3	19.5	25.3	16.7	3.7	4.7	4.5	7.0	.0	3.3	100.0	

DECEMBER

PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1871-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.6	.0	.0	2.6	2.6	7.7	2.6	.0	2.6	.0	20.5	79.5	39
06&09	.0	.0	4.8	19.0	9.5	.0	.0	.0	.0	.0	33.3	66.7	21
12&15	.0	3.9	.0	11.8	21.6	3.9	.0	.0	.0	.0	41.2	58.8	51
18&21	.0	4.3	4.3	4.3	21.7	4.3	.0	.0	.0	.0	39.1	60.9	23
TOT	1	3	2	12	19	6	1	0	1	0	45	89	134
PCT	.7	2.2	1.5	9.0	14.2	4.5	.7	.0	.7	.0	33.6	66.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	2.3	2.3	11.4	84.1	44
06&09	.0	.0	.0	4.2	16.7	79.2	24
12&15	.0	.0	.0	1.6	12.9	85.5	62
18&21	.0	4.2	.0	8.3	8.3	79.2	24
TOT	0	1	1	5	19	128	154
PCT	.0	.6	.6	3.2	12.3	83.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50 VV	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.6	2.6	5.1	15.4	79.5	39
06&09	.0	5.0	25.0	10.0	65.0	20
12&15	.0	3.9	15.7	25.5	58.8	51
18&21	.0	8.7	17.4	21.7	60.9	23
TOT	1	6	19	26	88	133
PCT	.8	4.5	14.3	19.5	66.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	2.0	.0	.0	.0	3	2.0
85/89	.0	.0	.0	.7	1.4	5.4	2.0	.0	14	9.5
80/84	.0	.0	.0	.0	1.4	23.8	35.4	4.1	95	64.6
75/79	.0	.0	.0	.0	.0	.7	9.5	12.9	34	23.1
70/74	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	1	7	44	69	26	147	100.0
PCT	.0	.0	.0	.7	4.8	29.9	46.9	17.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	1.5	.3	.0	.0	.0	.0	.0	.0
1.9	2.0	.7	3.1	.3	.0	.7	.2	.0	.7
9.9	12.1	18.5	10.5	1.9	2.4	2.6	5.4	.0	1.4
3.7	3.1	4.4	3.1	1.7	2.2	1.4	2.9	.0	.7
.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
15.5	17.3	25.2	17.0	3.9	4.6	4.6	8.5	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	90	89	83	79	76	76	83.4	62
06&09	90	89	88	81	76	76	76	81.3	26
12&15	86	85	84	80	76	74	74	80.1	64
18&21	85	84	83	81	77	77	77	80.7	27
TOT	91	90	87	81	77	75	74	81.5	179

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.4	12.2	43.9	26.8	14.6	78	41
06&09	.0	.0	4.2	25.0	54.2	16.7	82	24
12&15	.0	.0	1.7	27.1	32.5	18.6	83	59
18&21	.0	.0	.0	16.0	60.0	24.0	86	25
TOT	0	1	7	44	70	27	82	149

PERIOD: (PRIMARY) 1959-1977
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	1.4	2	.0	1.4
5	.0	.0	.0	2.2	1.4	5	.0	3.6
4	.0	.0	.7	.0	.0	1	.0	.7
2	.0	.0	1.4	1.4	.0	4	.0	2.9
1	.0	1.4	3.6	2.2	.0	10	.0	7.2
0	.0	.7	4.3	1.4	.0	9	.0	6.5
-1	1.4	3.6	12.3	.7	.0	25	.0	18.1
-2	.0	2.2	13.8	.0	.0	22	.0	15.9
-3	.0	8.7	5.8	.0	.0	20	.0	14.5
-4	.0	5.1	2.2	.0	.0	10	.0	7.2
-5	.0	3.6	2.2	.0	.0	8	.0	5.8
-6	.0	3.6	3.6	.0	.0	10	.0	7.2
-7/-8	1.4	3.6	1.4	.0	.0	9	.0	6.5
-9/-10	.7	1.4	.0	.0	.0	3	.0	2.2
TOTAL	5	47	71	11	4	138	0	138
PCT	3.6	34.1	51.4	8.0	2.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.0	.0	.0	.0	2.6
1-2	.0	7.0	1.0	.0	.0	.0	7.9
3-4	.0	.0	1.0	.0	.0	.0	1.0
5-6	.0	.0	1.0	.7	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.7	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.6	2.9	.7	.7	.0	13.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	2.9	2.2	.0	.0	.0	5.0
3-4	.0	3.8	1.4	1.0	.0	.0	6.3
5-6	.0	.0	3.1	.0	.0	.0	3.1
7	.0	.0	3.1	.0	.0	.0	3.1
8-9	.0	.0	.0	1.0	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.7	9.9	1.9	.0	.0	20.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.9	1.9	.0	.0	.0	4.8
1-2	.0	4.8	4.6	.0	.0	.0	9.4
3-4	.0	1.9	3.4	.0	.0	.0	5.3
5-6	.0	.0	3.4	.0	.0	.0	3.4
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.7	15.4	.0	.0	.0	25.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.9	.0	.0	.0	.0	2.9
1-2	.0	2.6	1.0	.0	.0	.0	3.6
3-4	.0	1.0	1.0	.0	.0	.0	1.9
5-6	.0	.0	4.1	.0	.0	.0	4.1
7	.0	.0	1.9	.0	.0	.0	1.9
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.5	8.4	.0	.0	.0	14.9

PERIOD: (OVER-ALL) 1963-1977

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.4	1.0	.0	.0	.0	2.4	1.0	3.4	.0	.0	.0	.0	4.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.7	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	1.0	.0	.0	.0	3.8	1.0	4.8	.0	.0	.0	.0	5.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	2.6	.0	.0	.0	.0	2.6	.0	2.2	1.9	.0	.0	.0	4.1	
3-4	.0	1.0	1.0	.0	.0	.0	1.9	.0	2.9	.0	.0	.0	.0	2.9	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.2	.0	.0	1.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.6	1.0	.0	.0	.0	5.5	.0	6.3	1.9	.2	.2	.0	8.7	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	10.6	1.9	.0	.0	.0	16.3	
1-2	1.0	26.9	11.5	.0	.0	.0	39.4	
3-4	.0	11.5	7.7	1.0	.0	.0	20.2	
5-6	.0	1.0	11.5	1.0	.0	.0	13.5	
7	.0	1.0	5.8	.0	.0	.0	6.7	
8-9	.0	.0	1.9	1.0	.0	.0	2.9	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	1.0	.0	1.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	51.0	40.4	2.9	1.0	.0	100.0	104

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	6.0	10.5	6.0	8.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	4
6-7	.0	4.5	10.5	12.8	8.3	3.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	5
8-9	.0	.8	1.5	9.0	2.3	4.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
10-11	.0	.0	.8	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
12-13	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	.0	1.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
TOTAL	1	17	32	41	26	11	3	2	0	0	0	0	0	0	0	0	0	0	0	133	5
PCT	.8	12.8	24.1	30.8	19.5	8.3	2.3	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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(OVER-ALL) 1863-1978

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.5	7.9	.6	.0	.0	.0	.0	10.0	5.1	.4	.0	.0	.0		.0	84.7
NE	4.0	5.7	.6	.0	.0	.0	.0	10.0	7.6	1.5	.0	.0	.2		.0	80.6
E	2.2	4.7	.9	.0	.0	.0	.0	7.6	5.3	3.0	.1	.0	.4		.0	83.8
SE	2.5	3.1	1.5	.0	.0	.0	.0	6.8	5.2	1.2	.4	.0	.1		.0	86.4
S	4.9	5.6	3.0	.0	.0	.0	.0	13.5	3.9	.0	.0	.0	.0		.0	82.6
SW	1.2	4.8	1.2	.0	.0	.0	.0	7.2	4.4	.0	.0	.0	.0		.0	80.1
W	8.9	1.7	.7	.0	.0	.0	.0	11.3	13.6	3.8	.0	.0	.0		.0	58.4
NW	6.9	6.9	.6	.0	.0	.0	.0	14.4	9.3	5.1	.0	.0	.0		.0	73.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.1	2.8	.0	.0	.0	.0	.0	4.9	1.4	.0	.0	.0	.0		.0	93.7
TOT PCT	3.3	4.8	1.2	.0	.0	.0	.0	9.1	5.9	1.7	.1	.0	.2		.0	83.1
TOT OBS:	1747															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.5	6.2	1.2	.0	.0	.0	.0	9.7	4.7	.0	.0	.0	.6		.0	84.9
06&09	3.7	3.2	1.4	.0	.0	.0	.0	8.0	6.2	1.7	.0	.0	.0		.0	84.1
12&15	3.4	4.4	1.4	.0	.0	.0	.0	9.1	5.0	4.1	.3	.0	.2		.0	81.6
18&21	3.9	5.1	.4	.0	.0	.0	.0	9.0	8.0	.3	.0	.0	.0		.0	82.7
TOT PCT	3.3	4.7	1.2	.0	.0	.0	.0	9.0	5.7	1.8	.1	.0	.2		.0	83.2
TOT OBS:	1789															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	3.5	2.2	.5	.1	.0		7.1	9.4	7.6	5.3	6.1	17.9	6.4	5.1	7.8	5.7
NE	1.0	6.8	4.8	.5	.0	.0		13.1	10.2	17.9	8.8	12.3	17.4	8.6	12.3	12.2	12.8
E	1.1	16.4	18.8	2.0	.0	.0		38.3	11.7	38.4	34.6	33.6	22.2	44.3	32.6	34.9	15.7
SE	1.0	9.3	12.5	1.6	.1	.0		24.6	12.2	22.5	34.3	26.3	17.5	24.1	32.2	25.5	28.4
S	.3	2.8	1.6	.2	.0	.0		5.0	9.9	4.1	4.7	6.6	.0	5.1	1.0	5.6	10.0
SW	.3	1.2	.3	.1	.0	.0		1.9	7.0	1.7	1.0	2.6	.0	1.8	3.1	2.9	2.8
W	.5	1.7	.9	.1	.0	.0		3.2	7.1	2.3	3.2	4.0	2.8	3.0	3.5	3.8	1.0
NW	.3	1.9	1.7	.5	.1	.0		4.5	9.9	3.7	7.5	6.7	2.8	3.9	4.4	4.8	2.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	1.8	.8	1.9	2.8	2.7	5.8	2.4	4.2
TOT OBS							2129		11.3	675	88	346	21	578	94	299	28
TOT PCT	7.7	43.6	42.9	5.6	.2	.0		100.0		100.0	100.0	100.0	83.3	100.0	100.0	100.0	83.3

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.1	4.0	.8	.3	.0		7.1	9.4	7.5	7.0	6.3	7.7
NE	3.3	8.5	1.2	.1	.0		13.1	10.2	17.0	12.7	9.4	12.2
E	6.8	24.6	6.7	.2	.0		38.3	11.7	38.1	33.4	43.2	34.5
SE	4.0	14.7	5.6	.2	*		24.6	12.2	23.2	25.9	24.8	25.9
S	1.8	2.5	.5	.1	.0		5.0	9.9	4.5	6.2	4.5	5.9
SW	.9	.9	.2	*	.0		1.9	7.0	1.6	2.4	1.8	3.1
W	1.3	1.6	.2	.0	.0		3.2	7.1	2.6	4.0	3.0	3.6
NW	1.0	2.3	.9	.3	*		4.5	9.9	3.9	6.5	4.0	4.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	1.7	2.0	3.3	2.4
TOT OBS						2129		11.3	763	367	672	327
TOT PCT	23.6	59.0	16.1	1.2	.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	4.7	41.3	46.8	5.4	.2	.0	11.5	100.0	763
06&09	4.0	5.7	46.3	40.6	5.3	.0	.0	11.0	100.0	367
12&15	3.3	5.6	42.7	41.8	6.6	.0	.0	11.4	100.0	672
18&21	2.4	5.2	47.5	38.3	5.2	1.2	.0	11.3	100.0	327
TOT								11.3		2129
PCT	2.4	5.3	43.6	42.9	5.6	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	1.2	2.7	2.2		4.6
NE	2.3	3.0	4.5	1.9		4.7
E	8.3	10.6	14.8	4.9		4.6
SE	4.5	7.0	9.9	3.6		4.7
S	.6	1.0	2.3	1.6		5.7
SW	.6	.4	.9	.3		4.1
W	.3	.7	1.1	1.0		5.0
NW	.4	.7	2.1	1.6		5.0
VAR	.0	.0	.0	.0		.0
CALM	.6	.6	.6	.2		3.3
TOT OBS					1523	4.9
TOT PCT	18.5	25.2	38.9	17.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.2	.6	.9	.4	.0	.0	.0	*	4.6	
NE	.1	*	.4	.5	1.4	.9	.1	.1	.1	*	8.2	
E	.2	.2	.8	2.8	5.1	1.4	.3	.0	.1	.0	27.8	
SE	.2	.1	.9	3.1	3.1	1.7	.2	.0	.1	.0	15.7	
S	.1	.1	.3	.5	1.1	.7	.0	.0	.0	.0	2.7	
SW	.0	.0	.2	.1	.2	.0	*	*	.0	.1	1.6	
W	.1	.0	.0	.2	.4	.1	.1	.1	.0	.0	2.1	
NW	.0	.1	.2	.5	.9	.3	.0	.0	.0	.0	2.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0	1.6	
TOT OBS												1523
TOT PCT	.7	.4	3.0	8.7	13.2	5.6	.8	.2	.2	.1	67.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.3	.5	.5	.5	.5	.5	.5	.5
* OR >3200	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >2000	5.5	6.8	6.9	6.9	6.9	6.9	6.9	6.9
* OR >1000	16.1	19.7	20.1	20.3	20.3	20.3	20.3	20.3
* OR >600	22.4	27.9	28.6	28.8	28.8	28.8	28.8	28.8
* OR >300	23.7	30.5	31.6	31.8	31.8	31.8	31.9	31.9
* OR >150	23.7	30.7	31.9	32.1	32.2	32.2	32.3	32.3
* OR > 0	23.9	31.3	32.5	32.8	32.9	32.9	33.0	33.0

TOTAL NUMBER OF OBS: 1549 PCT FREQ NH <5/8: 67.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.3	12.8	19.6	18.7	13.4	8.8	8.7	5.6	9.7	.4	1606

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	*	.1	.0	.0	.0	*	*	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.1	.0	.0	.0	*	*	.0	.0	.2	
1<2	PCP	.0	.1	.0	.1	.1	.0	.1	.0	.0	.0	.2	
	NO PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.4	
2<5	PCP	*	.2	.3	.1	.0	.0	.2	.2	.0	.0	1.1	
	NO PCP	*	.1	.1	.2	.1	.0	.0	.1	.0	.0	.7	
	TOT %	.1	.4	.5	.3	.1	.0	.2	.3	.0	.0	1.8	
5<10	PCP	.6	.4	.9	1.0	.4	.3	.1	.4	.0	.1	4.0	
	NO PCP	.6	1.1	2.6	2.2	.5	.4	.4	.6	.0	.2	8.7	
	TOT %	1.2	1.5	3.6	3.2	.9	.7	.5	1.0	.0	.3	12.8	
10+	PCP	.2	.5	1.4	.8	.3	*	.2	.2	.0	.0	3.5	
	NO PCP	5.8	9.4	32.8	20.5	3.8	1.5	2.3	3.3	.0	2.0	81.4	
	TOT %	5.9	9.9	34.2	21.3	4.1	1.5	2.5	3.9	.0	2.0	84.9	
	TOT OBS												1746
	TOT PCT	7.2	11.8	38.5	24.9	5.1	2.1	3.2	4.8	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	.0	.0	.0	*	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.0	.1	.1	*	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.1	.0	.0	.1	.0	.0		.1	
	TOT %	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.1	.1	.1	.0	.0	.1	.1	.0		.6	
	11-21	.0	.1	.3	.2	.1	.0	.1	.1	.0		.8	
	22+	*	.2	.1	*	.0	.0	.0	.1	.0		.4	
	TOT %	.1	.4	.5	.3	.1	.0	.2	.3	.0	.0	1.8	
5<10	0-3	*	.1	.1	.2	.1	.0	.1	.0	.0	.3	.8	
	4-10	.4	.9	1.9	1.3	.3	.6	.2	.3	.0		6.0	
	11-21	.4	.5	1.3	1.6	.5	.1	.2	.3	.0		4.7	
	22+	.4	.1	.2	.2	.1	.1	.0	.3	.0		1.3	
	TOT %	1.2	1.5	3.6	3.2	.9	.7	.5	1.0	.0	.3	12.8	
10+	0-3	.7	.8	.9	.9	.4	.3	.3	.3	.0	2.0	6.5	
	4-10	3.1	5.2	14.1	8.0	2.2	.7	1.5	1.5	.0		36.5	
	11-21	1.9	3.6	17.7	10.9	1.4	.3	.6	1.4	.0		37.8	
	22+	.3	.3	1.6	1.5	.2	.1	.1	.1	.0		4.0	
	TOT %	5.9	9.9	34.3	21.3	4.1	1.5	2.5	3.4	.0	2.0	84.9	
	TOT OBS												1746
	TOT PCT	7.2	11.8	38.6	24.9	5.1	2.1	3.2	4.7	.0	2.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.9	.7	2.5	6.9	12.8	6.4	.5	.2	.2	.0	31.1	68.9	417
06&09	.0	.0	3.0	9.5	10.8	6.4	1.0	.0	.2	.0	30.8	69.2	342
12&15	1.1	.3	2.6	8.4	14.2	4.6	.9	.4	.2	.2	32.9	67.1	522
18&21	.8	.6	4.1	9.6	14.3	4.8	.6	.0	.0	.4	35.2	64.8	304
TOT PCT	.8	.4	2.9	8.3	13.1	5.5	.7	.2	.2	.1	32.3	67.7	1585 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.4	2.3	13.6	83.7	479
06&09	.0	.0	.3	2.0	7.4	90.3	354
12&15	.3	.3	.2	1.2	14.0	84.0	646
18&21	.0	.3	.6	1.7	14.9	82.4	310
TOT PCT	.1	.2	.3	1.7	12.6	85.0	1789 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.7	4.0	12.6	19.7	67.6	405
06&09	.0	3.1	13.3	18.4	68.3	335
12&15	1.1	4.1	13.5	20.3	66.2	509
18&21	.8	5.6	16.5	19.5	64.0	300
TOT PCT	.7	4.1	13.7	19.7	66.7	1549 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.0	.0	.0	.0		.1
90/94	.0	.0	.0	.1	.6	.2	.0	.0		.9
85/89	.0	.0	.0	.2	1.4	5.3	1.3	.4		8.6
80/84	.0	.0	.0	.0	2.5	26.9	33.8	5.2		68.4
75/79	.0	.0	.0	.0	.8	3.7	10.3	6.8		21.6
70/74	.0	.0	.0	.0	.0	.1	.0	.4		.5
TOTAL PCT	.0	.0	.0	.4	5.4	36.2	45.3	12.8	1613	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.1	.1	.3	.3	.0	.0	.0	.0	.0	.0
.7	1.7	3.1	1.6	.3	.2	.4	.4	.0	.2
5.1	7.4	28.3	16.1	2.9	1.3	2.4	3.4	.0	1.6
1.2	1.9	7.2	7.0	1.8	.4	.5	1.0	.0	.5
.1	.0	.1	.1	.2	.1	.0	.0	.0	.1
7.2	11.1	39.0	25.0	5.2	2.0	3.3	4.9	.0	2.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	97	90	88	83	78	76	74	83.1	765
06&09	92	85	84	81	77	76	74	81.4	365
12&15	88	84	83	80	77	75	71	80.3	692
18&21	90	84	83	81	77	75	70	80.8	330
TOT	97	89	86	81	77	75	70	81.6	2152

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.3	9.9	49.9	31.1	7.8	78	434
06&09	.0	.0	5.8	34.8	44.4	15.0	81	334
12&15	.0	.0	3.3	30.7	52.0	13.9	82	592
18&21	.0	.0	1.4	28.7	54.1	15.8	83	296
TOT	0	6	86	599	749	216	81	1656

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.2	.1	3	.0	.2
9/10	.0	.0	.0	.2	.0	.2	.1	7	.0	.4
7/8	.0	.0	.0	.1	.1	.2	.0	6	.0	.4
6	.0	.0	.1	.2	.1	.3	.0	12	.0	.7
5	.0	.0	.1	.3	.8	.3	.0	24	.0	1.5
4	.0	.0	.1	.6	.5	.3	.0	25	.0	1.5
3	.0	.0	.1	.7	.7	.1	.0	26	.0	1.6
2	.0	.0	.3	1.8	1.5	.1	.0	61	.0	3.8
1	.0	.0	.7	3.0	2.0	.1	.0	95	.0	5.8
0	.0	.1	1.6	7.9	1.0	.0	.0	173	.0	10.7
-1	.0	.1	4.0	9.9	.7	.0	.0	240	.1	14.6
-2	.0	.1	4.6	12.3	.2	.0	.0	282	.0	17.2
-3	.0	.0	6.4	7.8	.2	.0	.0	238	.0	14.4
-4	.0	.3	4.7	5.2	.0	.0	.0	171	.0	10.2
-5	.0	.5	4.0	2.4	.1	.0	.0	113	.0	7.0
-6	.0	.6	3.3	1.3	.0	.0	.0	86	.0	5.2
-7/-8	.0	.8	2.5	.3	.0	.0	.0	60	.0	3.6
-9/-10	.1	.4	.3	.0	.0	.0	.0	14	.0	.8
-11/-13	.1	.1	.0	.0	.0	.0	.0	3	.0	.2
TOTAL								1640		
PCT	.1	3.0	32.8	54.2	7.9	1.9	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.0	.0	.0	.0	.9
1-2	.4	2.0	.4	.0	.0	.0	2.8
3-4	.1	.2	.8	.0	.0	.0	1.1
5-6	.1	.2	.4	.2	.0	.0	1.0
7	.0	.1	.1	.2	.0	.0	.3
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.1	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.0	1.8	.8	.1	.0	6.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.3	.1	.0	.0	.0	1.8
1-2	.2	3.4	1.0	.0	.0	.0	4.6
3-4	*	1.5	1.7	.2	.0	.0	3.5
5-6	.0	.2	1.0	.2	.0	.0	1.4
7	.0	.0	.3	*	.0	.0	.3
8-9	.0	*	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.5	4.4	.6	.0	.0	12.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.1	.2	.0	.0	.0	2.5
1-2	.5	8.1	5.2	.0	.0	.0	13.8
3-4	.0	4.9	8.4	.3	.0	.0	13.7
5-6	.0	.8	4.2	.3	.0	.0	5.3
7	.0	.2	1.4	.5	.0	.0	2.2
8-9	.0	.1	1.1	.6	.0	.0	1.7
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.2	.1	.0	.0	.2
13-16	.0	.0	.2	.1	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	16.1	21.0	2.1	.0	.0	39.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.1	.0	.0	.0	1.4
1-2	.3	4.9	2.5	.0	.0	.0	7.7
3-4	.0	3.2	3.8	.1	.0	.0	7.1
5-6	.0	.6	3.4	.3	.0	.0	4.3
7	.0	.0	1.7	.7	.0	.0	2.3
8-9	.0	.1	.4	.2	.0	.0	.7
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	9.7	11.9	1.6	.0	.0	23.9

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.3
1-2	.2	1.2	.8	.0	.0	.0	2.3
3-4	.1	.9	1.0	.2	.0	.0	2.1
5-6	.0	.1	.5	.0	.0	.0	.6
7	.0	.1	.3	.2	.0	.0	.6
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.4	2.7	.4	.0	.0	6.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.2	.7	.1	.0	.0	.0	1.0
3-4	.1	.3	.1	.0	.0	.0	.6
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	*	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.2	.2	.1	.0	.0	2.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.0	.8	.1	.0	.0	.0	.9
3-4	.1	.4	.4	.1	.0	.0	1.1
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.8	.6	.2	.0	.0	2.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.4	.0	.0	.0	.0	.7	
1-2	*	1.1	.4	.0	.0	.0	1.5	
3-4	.0	.5	.4	.1	.0	.0	1.1	
5-6	.0	.3	.4	*	.0	.0	.7	
7	.0	*	.1	.2	.0	.0	.4	
8-9	.0	.0	.1	.2	.0	.0	.3	
10-11	.0	.0	*	.0	.0	.0	*	
12	.0	.0	.0	.0	*	.0	*	
13-16	.0	.0	.0	.0	.1	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.2	1.4	.6	.1	.0	4.7	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	5.7	.5	.0	.0	.0	10.4	
1-2	2.5	22.1	10.5	.0	.0	.0	35.1	
3-4	.5	12.0	16.5	1.0	.0	.0	29.9	
5-6	.1	2.3	9.8	1.1	.0	.0	13.2	
7	.0	.4	3.8	1.9	.0	.0	6.1	
8-9	.0	.2	1.8	1.2	.0	.0	3.2	
10-11	.0	.0	.2	.7	.0	.0	.9	
12	.0	.0	.2	.2	.1	.0	.5	
13-16	.0	.0	.2	.3	.1	.0	.5	
17-19	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.3	42.6	43.6	6.4	.2	.0	100.0	1076

PERIOD: (OVER-ALL) 1954-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	8.2	13.9	6.6	3.0	.9	.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	510	4
6-7	.0	2.1	6.1	10.8	6.5	3.1	1.8	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	445	6
8-9	.1	.8	2.6	4.6	4.6	2.5	1.2	.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	244	6
10-11	.0	.4	1.1	1.2	1.1	1.0	.1	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	77	6
12-13	.0	.0	.6	.8	.5	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
>13	.0	.1	.0	.3	.9	.2	.1	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	28	8
INDET	2.4	.5	1.0	1.7	.4	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	3
TOTAL PCT	3.9	12.2	25.3	26.0	17.0	8.2	4.4	1.3	1.2	.3	.2	.0	.0	.1	.0	.0	.0	.0	.0	1435 100.0	5

PERIOD: (PRIMARY) 1889-1978
(OVER-ALL) 1863-1978

AREA 0010 SAMOA ISLANDS
14.0S 170.8W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
89/90	1.2	.6	1.1	.5	.0	.0	.0	.0	.0	.0	.0	.6	7	.3
87/88	3.0	7.3	11.5	10.6	5.6	1.2	1.1	1.1	.0	1.5	3.6	5.7	94	4.5
85/86	39.1	40.4	27.5	38.8	32.2	15.8	4.4	1.7	3.4	11.6	14.9	16.1	438	20.7
83/84	38.5	36.5	44.0	43.6	39.4	47.4	24.4	16.3	21.4	35.2	36.3	52.9	771	36.5
81/82	12.4	11.8	13.7	4.8	17.8	25.1	53.9	49.4	52.4	41.2	33.3	16.1	578	27.4
79/80	4.1	2.2	1.6	1.1	1.1	5.3	13.9	29.2	17.2	8.0	8.9	6.9	172	8.1
77/78	1.2	.0	.0	.5	2.8	3.5	1.7	2.2	4.1	2.5	1.8	1.7	38	1.8
75/76	.0	1.1	.0	.0	1.2	1.2	.6	.0	.7	.0	1.2	.0	10	.3
73/74	.6	.0	.0	.0	.0	.6	.0	.0	.7	.0	.0	.0	3	.3
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	169	178	182	188	180	171	180	178	145	199	168	174	2112	100.0
MEAN	83.9	84.2	84.3	84.5	83.6	82.8	81.9	81.3	81.5	82.6	82.7	83.3	83.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007	1007	1007	1012	1009	1006	1008	1008	1007	160
FEB	1009	1009	1008	1013	1009	1009	1009	1008	1009	175
MAR	1009	1008	1010	1011	1010	1005	1010	1005	1010	173
APR	1010	1010	1010	1012	1010	1009	1011	1012	1010	184
MAY	1010	1008	1010	1011	1011	1009	1011	1011	1010	164
JUN	1012	1012	1012		1012	1013	1012	1016	1012	157
JUL	1012	1009	1012	1013	1012	1013	1013		1012	149
AUG	1013	1012	1012	1011	1013	1010	1012		1012	149
SEP	1012	1013	1012	1012	1013	1012	1013	1014	1012	140
OCT	1012	1011	1011	1011	1012	1010	1012	1012	1012	198
NOV	1010	1008	1009		1010	1008	1010	1011	1010	152
DEC	1008	1008	1009	1011	1009	1008	1009	1010	1009	174
ANN	1010	1010	1010	1012	1011	1009	1011	1011	1010	1975
OBS	549	60	351	21	588	79	299	28		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	998	999	1002	1005	1007	1009	1012	1013	1014
FEB	1001	1001	1004	1008	1009	1010	1013	1014	1016
MAR	1000	1002	1006	1009	1010	1011	1013	1014	1018
APR	1000	1004	1007	1009	1010	1012	1014	1017	1018
MAY	1001	1002	1007	1009	1011	1012	1013	1015	1016
JUN	1008	1008	1009	1011	1012	1013	1015	1015	1016
JUL	1006	1008	1009	1011	1012	1013	1016	1017	1021
AUG	1008	1008	1009	1011	1012	1013	1015	1016	1017
SEP	1009	1009	1010	1011	1013	1013	1015	1016	1019
OCT	1007	1007	1009	1010	1012	1012	1014	1016	1017
NOV	1002	1002	1006	1008	1010	1011	1014	1016	1017
DEC	1001	1003	1005	1007	1008	1010	1012	1018	1019

JANUARY

PERIOD: (PRIMARY) 1943-1978
(OVER-ALL) 1861-1978

AREA 0011 NEW CALEDONIA
21.7S 165.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
N	14.3	.0	7.0	.0	.0	.0	.0	23.3	9.3	.0	.0	.0	.0	.0		.0	67.4
NE	14.4	.0	1.1	.0	.0	.0	.0	15.6	.0	.0	.0	.0	.0	.0		.0	84.4
E	8.0	1.3	1.5	.0	.0	.0	.0	11.1	.8	.0	.0	.0	.0	.6		.6	87.6
SE	3.1	1.1	.6	.0	.0	.0	.0	4.8	1.1	.6	.0	.0	.0	.1		.1	93.4
S	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0		.0	97.5
SW	.0	.0	4.3	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0		.0	95.7
W	13.3	.0	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0		.0	86.7
NW	8.0	.0	.0	.0	.0	.0	.0	8.0	.0	.0	.0	.0	.0	.0		.0	92.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0		.0	87.5
TOT PCT	5.5	.9	1.1	.0	.0	.0	.0	7.6	1.1	.2	.0	.0	.0	.2			90.8
TOT OBS:	435																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
00&03	7.0	.0	.0	.0	.0	.0	.0	7.0	3.5	.0	.0	.0	.0	1.8			87.7
06&09	6.0	.6	2.4	.0	.0	.0	.0	9.0	.0	.0	.0	.0	.0	.0			91.0
12&15	3.5	.0	1.8	.0	.0	.0	.0	5.3	3.5	1.8	.0	.0	.0	.0			89.5
18&21	5.0	1.9	.0	.0	.0	.0	.0	6.9	.6	.0	.0	.0	.0	.0			92.5
TOT PCT	5.5	.9	1.1	.0	.0	.0	.0	7.5	1.1	.2	.0	.0	.0	.2			90.9
TOT OBS:	440																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	1.3	.2	.0	.0	.0		2.7	5.1	3.5	.0	2.0	3.4	2.0	6.3	.0	2.8
NE	1.3	2.1	1.6	.0	.0	.0		5.0	8.4	7.9	.0	4.1	5.6	4.0	9.4	3.6	4.2
E	3.8	14.2	10.9	1.1	.2	.0		30.2	10.4	36.8	.0	14.3	27.1	22.5	50.0	40.7	36.0
SE	4.1	17.2	16.9	2.4	.3	.0		40.9	11.0	41.2	100.0	57.7	39.9	44.0	34.4	45.0	32.8
S	1.6	3.7	2.6	1.1	.2	.0		9.1	10.9	6.1	.0	9.7	13.6	15.5	.0	5.0	4.9
SW	1.3	2.5	.7	.6	.0	.0		5.2	8.1	.9	.0	4.1	6.2	6.0	.0	5.7	6.4
W	1.1	.2	.5	.0	.0	.0		1.9	5.6	.0	.0	2.0	2.2	.0	.0	.0	3.6
NW	.9	1.2	.3	.6	.0	.0		3.0	10.3	1.8	.0	6.1	1.3	6.0	.0	.0	4.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.8	.0	.0	.7	.0	.0	.0	5.3
TOT OBS	81	198	158	27	3	0	467		10.0	57	2	49	134	50	8	38	132
TOT PCT	17.3	42.4	33.8	5.8	.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.9	.9	.0	.0	.0		2.7	5.1	3.4	3.0	2.6	2.2
NE	2.2	2.4	.5	.0	.0		5.0	8.4	7.6	5.2	4.7	4.0
E	10.2	15.3	4.1	.6	.0		30.2	10.4	35.6	23.6	26.3	37.0
SE	10.2	24.6	5.2	.7	.2		40.9	11.0	43.2	44.7	42.7	35.3
S	2.7	4.8	1.0	.5	.0		9.1	10.9	5.9	12.6	13.4	4.9
SW	3.4	1.2	.3	.3	.0		5.2	8.1	.8	5.6	5.2	6.3
W	1.3	.4	.1	.0	.0		1.9	5.6	.0	2.2	.0	2.8
NW	1.3	1.0	.5	.2	.0		3.0	10.3	1.7	2.5	5.2	3.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	1.7	.5	.0	4.2
TOT OBS	164	236	55	11	1	467		10.0	59	183	58	167
TOT PCT	35.1	50.5	11.8	2.4	.2		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1943-1978
(OVER-ALL) 1861-1978

AREA 0011 NEW CALEDONIA
21.7S 165.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	1.7	37.3	54.2	3.4	1.7	.0	12.5	100.0	59
06&09	.5	18.0	39.9	33.3	8.2	.0	.0	10.1	100.0	183
12&15	.0	3.4	36.2	44.8	13.8	1.7	.0	13.5	100.0	58
18&21	4.2	21.6	49.1	23.4	1.2	.6	.0	7.9	100.0	167
TOT	9	72	198	158	27	3	0	10.0		467
PCT	1.9	15.4	42.4	33.8	5.8	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.6	.6	.0		4.0
NE	.9	.0	1.4	1.1		5.7
E	5.0	5.7	10.5	7.5		5.4
SE	15.1	12.6	16.2	2.4		3.9
S	2.0	2.0	4.7	1.4		4.8
SW	1.1	1.4	1.6	.1		3.8
W	.0	.0	.0	.6		8.0
NW	.0	.0	2.9	1.7		6.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	43	39	66	26	174	4.6
TOT PCT	24.7	22.4	37.9	14.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	1.1	
NE	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	2.7	
E	.0	.0	.0	4.0	5.9	.6	1.1	.0	.0	.4	16.7	
SE	.0	.0	1.4	2.2	5.6	1.1	.7	.0	.0	.1	35.2	
S	.0	.0	.9	.6	1.0	.3	.4	.0	.0	.0	7.0	
SW	.0	.0	.0	.0	.1	.9	.0	.0	.0	.0	3.3	
W	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	
NW	.0	.6	1.1	.6	.0	.6	.0	.0	.0	.0	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	1	6	14	22	8	4	0	0	1	118	174
TOT PCT	.0	.6	3.4	8.0	12.6	4.6	2.3	.0	.0	.6	67.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
* OR >3500	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	5.2	6.9	7.5	7.5	7.5	7.5	7.5	7.5
* OR >1000	14.4	19.0	20.1	20.1	20.1	20.1	20.1	20.1
* OR >600	18.4	25.9	27.6	27.6	28.2	28.2	28.2	28.2
* OR >300	20.1	29.3	31.0	31.0	31.6	31.6	31.6	31.6
* OR >150	20.1	29.3	31.0	31.0	31.6	31.6	31.6	31.6
* OR > 0	20.1	29.3	31.0	31.0	31.6	31.6	31.6	31.6
TOTAL	35	51	54	54	55	55	55	55

TOTAL NUMBER OF OBS: 174 PCT FREQ NH <5/8: 68.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.1	18.1	20.2	13.3	12.2	11.2	5.3	8.0	9.6 .0	188

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PERIOD: (PRIMARY) 1943-1976
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.2	.1	.0	.0	.2	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.1	.0	.0	.2	.0	.0	.0	.5	
1<2	PCP	.2	.1	.2	.2	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.2	.2	.0	.0	.0	.0	.0	.0	.7	
2<5	PCP	.0	.0	.9	.7	.0	.0	.0	.0	.0	.0	1.6	
	NO PCP	.2	.2	.9	3.0	.5	.0	.4	.1	.0	.0	5.3	
	TOT %	.2	.2	1.8	3.7	.5	.0	.4	.1	.0	.0	6.9	
5<10	PCP	.2	.7	1.1	.7	.0	.2	.0	.2	.0	.0	3.2	
	NO PCP	.7	.5	4.4	8.8	3.2	1.1	.4	.7	.0	.0	19.8	
	TOT %	.9	1.3	5.5	9.5	3.2	1.3	.4	.9	.0	.0	23.0	
10+	PCP	.2	.0	.9	.2	.0	.0	.0	.0	.0	.2	1.6	
	NO PCP	1.0	3.6	21.5	27.2	5.7	4.1	.7	1.9	.0	1.6	67.4	
	TOT %	1.2	3.6	22.4	27.5	5.7	4.1	.7	1.9	.0	1.8	69.0	
	TOT OBS												435
	TOT PCT	2.5	5.2	30.1	41.0	9.4	5.4	1.7	2.9	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.1	.2	.1	.4	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.2	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.3	.2	.2	.1	.4	.0	.0	.0	1.1	
1<2	0-3	.2	.1	.2	.2	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.0	.7	.0	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.9	.2	.0	.0	.0	.0	.0	.0	1.3	
2<5	0-3	.0	.0	.2	.9	.0	.0	.2	.1	.0	.0	1.3	
	4-10	.2	.0	.7	1.6	.2	.0	.0	.0	.0		2.7	
	11-21	.0	.2	.6	1.2	.2	.0	.2	.0	.0		2.5	
	22+	.0	.0	.4	.0	.0	.0	.0	.0	.0		.4	
	TOT %	.2	.2	1.8	3.7	.4	.0	.4	.1	.0	.0	6.9	
5<10	0-3	.7	.1	.6	1.7	1.1	.2	.2	.1	.0	.0	4.7	
	4-10	.1	.7	1.8	3.2	.8	1.1	.0	.1	.0		7.8	
	11-21	.0	.5	2.8	3.6	.9	.0	.2	.0	.0		8.0	
	22+	.0	.0	.2	.7	.2	.0	.0	.7	.0		1.8	
	TOT %	.8	1.2	5.4	9.3	3.1	1.3	.4	.9	.0	.0	22.3	
10+	0-3	.4	1.3	3.0	1.1	.4	1.2	.4	.7	.0	1.8	10.3	
	4-10	.8	1.5	11.0	12.9	2.7	1.4	.2	.9	.0		31.5	
	11-21	.2	.7	7.3	11.6	1.6	.8	.0	.2	.0		22.3	
	22+	.0	.0	.6	1.7	1.1	.6	.0	.0	.0		4.0	
	TOT %	1.4	3.5	21.9	27.3	5.7	4.0	.7	1.8	.0	1.8	68.1	
	TOT OBS												448
	TOT PCT	2.6	5.0	30.3	41.0	9.4	5.3	1.8	2.8	.0	1.8	100.0	

PERIOD: (PRIMARY) 1943-1978
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	3.6	7.1	5.4	.0	.0	.0	.0	16.1	83.9	56
06&09	.0	.0	2.0	14.3	16.3	2.0	.0	.0	.0	.0	34.7	65.3	49
12&15	.0	.0	7.1	4.8	9.5	2.4	7.1	.0	.0	2.4	33.3	66.7	42
18&21	.0	3.0	6.1	9.1	18.2	9.1	3.0	.0	.0	.0	48.5	51.5	33
TOT	0	1	6	14	22	8	4	0	0	1	56	124	180
PCT	.0	.6	3.3	7.8	12.2	4.4	2.2	.0	.0	.6	31.1	68.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.8	.0	5.3	10.5	82.5	57
06&09	.6	2.3	2.9	12.6	29.1	52.6	175
12&15	.0	.0	.0	1.8	14.0	84.2	57
18&21	.0	.0	.6	3.0	22.0	74.4	164
TOT	1	5	6	31	101	309	453
PCT	.2	1.1	1.3	6.8	22.3	68.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.8	7.3	10.9	81.8	55
06&09	.0	2.0	18.4	16.3	65.3	49
12&15	.0	7.7	12.8	23.1	64.1	39
18&21	.0	6.5	16.1	32.3	51.6	31
TOT	0	7	23	33	118	174
PCT	.0	4.0	13.2	19.0	67.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.5	.5	.0	.3	.0	5	1.4
85/89	.0	.0	.0	.3	1.4	3.3	.5	1.6	26	7.1
80/84	.0	.0	.0	1.1	6.6	15.1	15.1	10.4	176	48.2
75/79	.0	.0	.0	.5	2.7	12.6	13.2	13.7	156	42.7
70/74	.0	.0	.0	.0	.0	.0	.3	.3	2	.5
TOTAL	0	0	0	9	41	113	107	95	365	100.0
PCT	.0	.0	.0	2.5	11.2	31.0	29.3	26.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.5	.5	.0	.3	.0	.0	.0	.0
.2	.9	1.0	3.1	.3	.5	.2	.3	.0	.5
.5	3.5	19.2	17.3	2.4	1.7	.5	1.9	.0	1.1
.5	1.0	12.2	19.9	5.8	2.2	.5	.3	.0	.3
.0	.0	.0	.3	.3	.0	.0	.0	.0	.0
1.3	5.3	33.0	41.1	8.8	4.7	1.3	2.5	.0	1.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	93	92	88	82	76	76	76	82.1	61
06&09	97	91	87	80	75	73	71	80.7	182
12&15	82	81	81	79	75	74	74	78.8	58
18&21	95	91	85	80	75	74	72	79.7	171
TOT	97	91	87	80	75	74	71	80.3	472

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	7.0	24.6	31.6	24.6	12.3	76	57
06&09	.0	1.5	11.0	36.8	23.5	27.2	81	136
12&15	.0	.0	4.3	32.6	39.1	23.9	83	46
18&21	.0	2.3	7.7	24.6	33.8	31.5	83	130
TOT	0	9	41	115	108	96	81	369

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.5	.0	.5	2	.0	.9
14/16	.0	.0	.0	1.4	.0	.0	3	.0	1.8
11/13	.0	.0	.0	.9	.0	.0	2	.0	1.4
9/10	.0	.0	.9	.5	.5	.5	5	.0	2.3
7/8	.0	.0	.9	2.3	.5	.0	8	.0	3.6
6	.0	.5	.5	.9	.0	.0	4	.0	1.4
5	.0	.5	1.4	1.4	.0	.0	7	.0	3.2
4	.0	.5	1.4	.0	.0	.0	4	.0	1.8
3	.0	.9	3.6	.5	.0	.0	11	.0	5.0
2	.0	1.8	3.6	.0	.0	.0	12	.0	5.4
1	.5	4.1	5.0	.0	.0	.0	21	.0	9.5
0	.5	5.9	8.1	.0	.0	.0	32	.0	14.0
-1	.9	7.7	3.2	.0	.0	.0	26	.0	11.7
-2	.9	7.7	3.6	.0	.0	.0	27	.0	12.2
-3	2.7	8.1	.9	.0	.0	.0	26	.0	11.7
-4	3.2	4.5	.5	.0	.0	.0	18	.0	8.1
-5	1.4	3.2	.5	.0	.0	.0	11	.0	5.0
-6	.5	.0	.0	.0	.0	.0	1	.0	.5
-7/-8	.5	.0	.0	.0	.0	.0	1	.0	.5
-9/-10	.5	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	25		75		2			0	222
		100		18		2	222		
PCT	11.3	45.0	33.7	8.2	.9	.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.6	.0	.0	.0	1.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6
1-2	.0	.3	.6	.0	.0	.0	.9
3-4	.0	1.4	.7	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.6	.0	.0	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.7	1.9	.0	.0	.0	4.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.0	3.2	.0	.0	.0	10.2
3-4	.0	5.0	5.5	1.1	.0	.0	11.6
5-6	.0	.0	2.3	.4	.0	.0	2.7
7	.0	.0	3.3	.4	.0	.0	3.7
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.1	14.8	2.6	.0	.0	29.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	1.1	.0	.0	.0	1.7
1-2	.0	8.5	5.3	.0	.0	.0	13.9
3-4	.0	9.2	6.8	1.1	.0	.0	17.1
5-6	.0	.0	7.5	2.0	.6	.0	10.1
7	.0	.0	3.6	.7	.0	.0	4.3
8-9	.6	.0	.0	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	18.2	24.4	3.9	.7	.0	47.8

PERIOD: (OVER-ALL) 1963-1978

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.6	.0	.0	.0	1.9	.0	.7	1.1	.0	.0	.0	1.9
3-4	.0	1.0	2.0	.0	.0	.0	3.0	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	1.1	.9	.0	.0	2.0	.0	.0	.0	.7	.0	.0	.7
7	.0	.0	.6	.6	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	4.3	2.4	.4	.0	10.1	.0	.7	1.7	.9	.0	.0	3.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.1	.0	.0	1.7	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	.0	.0	.0	.0	.0	.6	.0	1.1	.6	1.1	.0	.0	2.9	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.1	1.7	1.1	.0	.0	.0	4.0	
1-2	.0	19.5	10.9	.0	.0	.0	30.3	
3-4	.0	16.7	15.5	2.3	.0	.0	34.5	
5-6	.0	.0	11.5	5.2	.6	.0	17.2	
7	.0	.0	8.0	1.7	.0	.0	9.8	
8-9	.6	.0	.6	.6	.0	.0	1.7	
10-11	.0	.0	.0	.0	.6	.0	.6	
12	.0	.0	.6	.6	.0	.0	1.1	
13-16	.0	.0	.0	.6	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								174
TOT PCT	1.7	37.9	48.3	10.9	1.1	.0	100.0	

PERIOD: (OVER-ALL) 1955-1978

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	9.6	8.5	4.5	6.8	2.8	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	5
6-7	.0	2.8	7.3	9.0	5.1	2.3	4.5	1.1	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	6
8-9	.0	.0	.6	5.1	5.1	1.1	1.7	.6	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	8
10-11	.0	1.1	.0	.6	.6	2.3	.6	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	11	10
12-13	.0	.0	1.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
>13	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	1.1	.0	.6	2.3	.6	.6	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
TOTAL	3	24	33	38	35	16	13	6	7	1	0	0	0	1	0	0	0	0	0	177	6
PCT	1.7	13.6	18.6	21.5	19.8	9.0	7.3	3.4	4.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1943-1978
(OVER-ALL) 1894-1978

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	1.3	.0	5.2	.0	.0	.0	.0	6.5	5.2	.0	.0	.0	.0		.0	88.3
E	7.6	.0	2.6	.0	.0	.0	.0	10.2	1.0	1.0	.0	.0	.0		.0	87.7
SE	3.4	1.2	.8	.0	.0	.0	.0	5.4	1.1	.1	.5	.0	1.6		.0	91.3
S	.0	1.9	.0	.0	.0	.0	.0	1.9	2.9	1.9	.0	.0	.0		.0	93.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0		.0	88.9
NW	.0	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0		.0	98.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	3.6	1.0	1.3	.0	.0	.0	.0	5.9	1.9	.5	.3	.0	.8		.0	91.3
TOT OBS:	393															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	1.7	1.7	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0		.0	96.6
06&09	6.3	1.4	2.1	.0	.0	.0	.0	9.9	1.4	.7	.0	.0	.7		.0	87.3
12&15	3.0	.0	1.5	.0	.0	.0	.0	4.5	1.5	1.5	1.5	.0	1.5		.0	89.4
18&21	2.3	.8	.0	.0	.0	.0	.0	3.0	1.5	.0	.0	.0	.8		.0	94.7
TOT PCT	3.5	1.0	1.3	.0	.0	.0	.0	5.8	1.3	.5	.3	.0	.8		.0	91.5
TOT OBS:	399															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	.5	.2	.0	.0	.0		1.8	5.3	1.8	.0	1.8	2.2	.0	6.3	.0	2.8
NE	.8	2.5	1.2	.0	.0	.0		4.5	8.4	5.3	.0	1.8	4.6	3.8	21.9	5.9	4.2
E	1.4	11.7	10.5	1.7	.0	.0		25.3	11.6	15.4	58.3	35.3	24.8	29.6	40.6	21.1	23.1
SE	1.6	18.8	22.7	4.3	.7	.0		48.1	13.3	64.0	8.3	46.4	45.0	50.8	18.8	57.2	42.0
S	.8	5.7	3.6	.0	.0	.0		10.1	8.9	4.8	33.3	9.4	11.1	12.5	12.5	7.9	10.8
SW	.6	1.9	.5	.0	.0	.0		2.9	6.7	5.3	.0	3.6	3.1	.0	.0	2.6	3.1
W	.6	1.0	.0	.0	.0	.0		1.7	5.2	.0	.0	1.3	3.1	.0	.0	.0	3.1
NW	1.9	1.2	.2	.0	.0	.0		3.3	4.1	.0	.0	.4	3.4	3.3	.0	2.6	7.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	3.5	.0	.0	2.9	.0	.0	2.6	3.8
TOT OBS	48	187	168	26	3	0	432		11.1	57	3	56	104	60	8	38	106
TOT PCT	11.1	43.3	38.9	6.0	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.4	.2	.2	.0	.0		1.8	5.3	1.7	2.0	.7	2.1
NE	2.1	1.9	.5	.0	.0		4.5	8.4	5.0	3.6	5.9	4.7
E	6.0	13.9	5.5	.0	.0		25.3	11.6	17.5	28.4	30.9	22.6
SE	8.6	25.3	12.0	1.9	.2		48.1	13.3	61.3	45.5	47.1	46.0
S	4.5	4.6	.9	.0	.0		10.1	8.9	6.3	10.5	12.5	10.1
SW	1.9	1.0	.0	.0	.0		2.9	6.7	5.0	3.3	.0	3.0
W	1.2	.5	.0	.0	.0		1.7	5.2	.0	2.5	.0	2.3
NW	2.8	.5	.0	.0	.0		3.3	4.1	.0	2.3	2.9	5.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	3.3	1.9	.0	3.5
TOT OBS	133	207	83	8	1	432		11.1	60	100	68	144
TOT PCT	30.8	47.9	19.2	1.9	.2		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.3	3.3	31.7	55.0	5.0	1.7	.0	13.2	100.0	60
06&09	1.9	10.0	43.1	36.9	7.5	.6	.0	10.9	100.0	160
12&15	.0	2.9	38.2	51.5	7.4	.0	.0	12.9	100.0	68
18&21	3.5	12.5	50.7	28.5	4.2	.7	.0	9.6	100.0	144
TOT	10	38	187	168	26	3	0	11.1		432
PCT	2.3	8.8	43.3	38.9	6.0	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.5	.0	.0		3.0
NE	2.2	.7	.1	2.1		4.4
E	6.5	5.1	8.5	4.6		4.7
SE	13.4	15.4	20.2	5.3		4.4
S	2.3	2.9	3.0	.5		4.0
SW	.5	.5	1.6	.0		4.2
W	.0	.4	.0	.0		4.0
NW	1.6	.1	.0	.0		2.1
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.5	.0		2.0
TOT OBS	54	49	65	24	192	4.4
TOT PCT	28.1	25.5	33.9	12.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
NE	.0	.0	.0	1.6	.5	.0	.0	.0	.0	.0	3.0	
E	.0	.5	.5	1.8	1.0	1.0	2.2	.0	.0	.0	17.4	
SE	.0	.0	.0	2.3	5.7	5.2	.9	.0	.0	.0	40.1	
S	.0	.0	.5	.0	.0	.0	.5	.5	.0	.0	7.2	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
TOT OBS	0	1	2	11	14	12	7	1	0	0	144	192
TOT PCT	.0	.5	1.0	5.7	7.3	6.3	3.6	.5	.0	.0	75.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
* OR >3500	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
* OR >2000	7.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
* OR >1000	12.6	16.7	17.7	17.7	17.7	17.7	17.7	17.7
* OR >600	16.2	20.7	22.7	23.7	23.7	23.7	23.7	23.7
* OR >300	16.7	21.7	23.7	24.7	24.7	24.7	24.7	24.7
* OR >150	16.7	22.2	24.2	25.3	25.3	25.3	25.3	25.3
* OR > 0	16.7	22.2	24.2	25.3	25.3	25.3	25.3	25.3
TOTAL	33	44	48	50	50	50	50	50

TOTAL NUMBER OF OBS: 198

PCT FREQ NH <5/8: 74.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.0	19.7	22.2	17.7	12.3	4.4	7.9	5.9	7.9	.0	203

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	PCP	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0	.8	
	PCP	.0	.1	.4	.3	.0	.0	.0	.0	.0	.0	.8	
2<5	NO PCP	.0	1.7	.9	1.8	.3	.3	.3	.0	.0	.0	5.1	
	TOT %	.0	1.7	1.3	2.1	.3	.3	.3	.0	.0	.0	5.9	
	PCP	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	2.0	
5<10	NO PCP	.3	.9	3.9	6.6	2.0	.5	.1	.2	.0	.3	14.8	
	TOT %	.3	.9	4.9	7.6	2.0	.5	.1	.2	.0	.3	16.8	
	PCP	.0	.3	.7	.9	.2	.0	.2	.1	.0	.0	2.3	
10+	NO PCP	1.5	2.0	16.9	37.2	7.8	2.1	1.1	3.2	.0	2.0	73.8	
	TOT %	1.5	2.3	17.6	38.0	8.0	2.1	1.3	3.2	.0	2.0	76.1	
	TOT OBS												393
	TOT PCT	1.8	4.9	24.4	48.4	10.2	2.9	1.7	3.4	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	4-10	.2	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	11-21	.0	.0	.2	.7	.0	.0	.0	.0	.0		1.0	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.2	.0	.7	.7	.0	.0	.0	.1	.0	.0	1.7	
	0-3	.0	.2	.2	.0	.0	.0	.2	.0	.0	.0	.7	
2<5	4-10	.0	1.2	.9	.6	.2	.2	.0	.0	.0		3.2	
	11-21	.0	.2	.2	1.3	.0	.0	.0	.0	.0		1.7	
	22+	.0	.0	.1	.4	.0	.0	.0	.0	.0		.5	
	TOT %	.0	1.7	1.5	2.3	.2	.2	.2	.0	.0	.0	6.1	
	0-3	.1	.4	.2	.2	.0	.2	.0	.0	.0	.2	1.5	
5<10	4-10	.2	.2	2.6	3.6	.7	.2	.2	.3	.0		8.1	
	11-21	.0	.2	1.3	2.9	1.2	.0	.0	.0	.0		5.6	
	22+	.0	.0	.8	1.7	.0	.0	.0	.0	.0		2.5	
	TOT %	.3	.9	5.0	8.3	1.9	.5	.2	.3	.0	.2	17.6	
	0-3	1.0	.2	.7	1.5	.9	.1	.4	2.0	.0	2.0	8.8	
10+	4-10	.2	1.2	7.7	14.8	4.8	1.5	.9	.9	.0		31.9	
	11-21	.2	.8	8.4	18.0	2.3	.5	.0	.2	.0		30.4	
	22+	.0	.0	.4	2.5	.0	.0	.0	.0	.0		2.9	
	TOT %	1.4	2.2	17.3	36.8	7.9	2.1	1.3	3.1	.0	2.0	74.0	
	TOT OBS												408
	TOT PCT	1.9	4.7	24.6	48.5	10.0	2.8	1.8	3.5	.0	2.2	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1943-1978
(OVER-ALL) 1894-1978

AREA 0011 NEW CALEDONIA
21.5S 165.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.6	1.8	3.6	3.6	3.6	.0	.0	.0	16.1	83.9	56
06&09	.0	.0	.0	9.4	9.4	11.3	3.8	1.9	.0	.0	35.8	64.2	53
12&15	.0	2.0	.0	9.8	5.9	2.0	2.0	.0	.0	.0	21.6	78.4	51
18&21	.0	.0	.0	2.5	12.5	7.5	5.0	.0	.0	.0	27.5	72.5	40
TOT	0	1	2	12	15	12	7	1	0	0	50	150	200
PCT	.0	.5	1.0	6.0	7.5	6.0	3.5	.5	.0	.0	25.0	75.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	5.1	94.9	59
06&09	.7	.7	2.7	10.7	24.8	60.4	149
12&15	.0	.0	3.0	7.6	18.2	71.2	66
18&21	.0	.0	1.4	2.9	15.0	80.7	140
TOT	1	1	8	25	73	306	414
PCT	.2	.2	1.9	6.0	17.6	73.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.6	5.4	10.7	83.9	56
06&09	.0	.0	9.6	26.9	63.5	52
12&15	.0	2.0	15.7	9.8	74.5	51
18&21	.0	.0	7.7	20.5	71.8	39
TOT	0	3	19	33	146	198
PCT	.0	1.5	9.6	16.7	73.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.3	.0	.0	.0	.0	.0	1	.3
90/94	.0	.0	.0	.0	.3	.3	.0	.0	2	.6
85/89	.0	.0	.3	.0	.6	1.1	1.4	1.4	17	4.8
80/84	.0	.0	.0	.3	3.7	14.6	17.1	13.2	174	48.9
75/79	.0	.0	.0	.3	1.4	11.2	16.0	14.9	156	43.8
70/74	.0	.0	.0	.0	.0	.3	.6	.8	6	1.7
TOTAL	0	0	2	2	21	98	129	108	356	100.0
PCT	.0	.0	.6	.6	5.9	27.5	35.1	30.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
.0	.0	.0	.3	.0	.0	.3	.0	.0	.0
.0	.6	1.0	1.3	.8	.3	.3	.0	.0	.6
1.5	2.5	13.3	19.9	4.6	2.1	.8	3.3	.0	.8
.2	1.9	11.0	23.9	4.6	.6	.4	.1	.0	1.1
.0	.0	.3	1.3	.1	.0	.0	.0	.0	.0
1.8	5.0	25.6	46.9	10.1	2.9	1.8	3.4	.0	2.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	87	86	82	77	76	76	81.7	62
06&09	90	89	86	80	75	74	73	80.2	160
12&15	84	83	82	79	75	74	74	79.0	71
18&21	95	90	85	79	75	71	71	79.7	144
TOT	95	89	85	80	75	74	71	80.0	437

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	19.2	40.4	32.7	7.7	77	52
06&09	.0	.8	5.3	23.5	31.1	39.4	86	132
12&15	.0	.0	3.5	33.3	49.1	14.0	82	57
18&21	.0	2.5	2.5	24.0	33.1	38.0	85	121
TOT	0	4	22	100	126	110	84	362

FEBRUARY

PERIOD: (PRIMARY) 1943-1976
(OVER-ALL) 1894-1978

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	1.1	1.1	.4	7	.0	3.0
11/13	.0	.0	.4	.0	.0	.0	1	.0	.4
9/10	.0	.0	.8	.0	.0	.0	2	.0	.8
7/8	.0	.0	.8	1.1	1.9	.0	10	.0	3.8
6	.0	.4	.8	.4	.0	.0	4	.0	1.5
5	.0	.0	.4	1.5	.0	.0	5	.0	1.9
4	.4	1.1	1.5	1.1	.4	.0	12	.0	4.5
3	.0	1.1	2.7	.0	.0	.0	10	.0	3.8
2	.0	2.3	4.9	.8	.0	.0	21	.0	8.0
1	.0	3.8	5.3	.4	.0	.0	25	.0	9.5
0	.4	8.3	9.1	.8	.0	.0	49	.0	18.6
-1	.4	8.3	3.0	.0	.0	.0	31	.0	11.4
-2	.8	8.3	3.8	.0	.0	.0	34	.0	12.9
-3	.8	8.0	.8	.0	.0	.0	25	.0	9.5
-4	1.1	2.7	.8	.0	.0	.0	12	.0	4.5
-5	.8	1.1	.8	.0	.0	.0	7	.0	2.7
-6	.4	1.1	.0	.0	.0	.0	4	.0	1.5
-7/-8	1.1	.4	.0	.0	.0	.0	4	.0	1.5
-11/-13	.4	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	17	124	94	19	9	1	264	0	264
PCT	6.4	47.0	35.6	7.2	3.4	.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.6	.0	.0	.0	.6
3-4	.6	.0	.0	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†DT PCT	.6	.0	.6	.0	.0	.0	1.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	1.8	1.1	.0	.0	.0	3.0
3-4	.0	.6	.6	.0	.0	.0	1.1
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†DT PCT	.0	3.1	1.8	.0	.0	.0	4.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.4	.0	.0	.0	.0	2.0
1-2	.0	4.4	3.2	.0	.0	.0	7.6
3-4	.0	1.0	6.8	1.6	.0	.0	9.3
5-6	.0	1.0	2.1	.0	.0	.0	3.1
7	.0	.0	1.6	.6	.0	.0	2.1
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†DT PCT	.6	7.8	15.1	2.1	.0	.0	25.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.4	.6	.0	.0	.0	3.5
1-2	.0	5.1	5.2	.0	.0	.0	10.3
3-4	.0	1.6	17.2	.7	.0	.0	19.5
5-6	.0	2.4	9.6	1.7	.0	.0	13.7
7	.0	.6	3.0	1.7	.0	.0	5.2
8-9	.0	.0	.6	.6	.0	.0	1.1
10-11	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.6	.6	.0	1.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†DT PCT	.6	12.0	37.0	5.2	.6	.0	55.4

PERIOD: (OVER-ALL) 1963-1978 FEBRUARY AREA 0011 NEW CALEDONIA

TABLE 18 (CONT) 21.5S 165.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	1.4	2.5	.0	.0	.0	4.0
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	3.1	.0	.0	.0	7.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.6	.6	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	.0	.0	.0	.0	2.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.0	.0	.0	.0	.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	.1	.0	.0	.0	.0	.1	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.6	.0	.0	.0	.0	.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	6.8	.6	.0	.0	.0	9.6	
1-2	.0	14.1	10.2	.0	.0	.0	24.3	
3-4	.6	5.1	27.7	2.3	.0	.0	35.6	
5-6	.0	4.0	12.4	1.7	.0	.0	18.1	
7	.0	.6	5.1	2.3	.0	.0	7.9	
8-9	.0	.0	1.1	.6	.0	.0	1.7	
10-11	.0	.0	1.1	.0	.0	.0	1.1	
12	.0	.0	.6	.0	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.6	.6	.0	1.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	30.5	58.8	7.3	.6	.0	100.0	177

PERIOD: (OVER-ALL) 1949-1978

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	5.6	6.6	11.2	4.6	2.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	4
6-7	.0	1.5	5.1	10.7	7.7	4.1	2.0	2.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	6
8-9	.0	.5	3.1	5.6	3.1	5.6	.5	.0	1.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	7
10-11	.0	.5	1.5	.0	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
12-13	.0	.0	.0	.0	.5	.5	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
>13	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	1.5	.0	.0	1.0	3.1	.0	.0	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
TOTAL	5	16	32	57	38	25	7	6	5	5	0	0	0	0	0	0	0	0	0	196	6
PCT	2.6	8.2	16.3	29.1	19.4	12.8	3.6	3.1	2.6	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1856-1977

AREA 0011 NEW CALEDONIA
21.7S 165.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	9.2	.0	.0	.0	.0	.0	.0	9.2	.0	3.9	.0	.0	.0	.0	.0	86.8
NE	5.7	.0	.0	.0	.0	.0	.0	5.7	2.3	4.6	.0	.0	.0	.0	.0	87.4
E	4.1	1.1	2.7	.0	.0	.0	.0	7.8	2.8	.0	.0	.0	.7	.0	.0	88.7
SE	4.7	.8	.7	.0	.0	.0	.0	6.2	.0	.6	.0	.0	.0	.0	.0	93.2
S	14.8	.0	2.3	.0	.0	.0	.0	17.0	.0	.0	.0	.0	.0	.0	.0	83.0
SW	.0	7.5	.0	.0	.0	.0	.0	7.5	1.9	.0	.0	.0	.0	.0	.0	90.6
W	.0	.0	.0	.0	.0	.0	.0	.0	11.7	.0	.0	.0	.0	.0	.0	88.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	98.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1	4.6	2.1	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	91.7
TOT PCT	5.0	1.2	1.4	.0	.0	.0	.0	7.5	1.4	.8	.0	.0	.2	.0	.0	90.2
TOT OBS:	518															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.3	.0	1.7	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	95.0
06&09	6.0	1.5	1.5	.0	.0	.0	.0	9.0	1.5	.0	.0	.0	.0	.0	.0	89.5
12&15	7.1	1.8	3.6	.0	.0	.0	.0	12.5	1.8	1.8	.0	.0	.0	.0	.0	83.9
18&21	4.4	1.0	.5	.0	.0	.0	.0	5.8	1.5	1.5	.0	.0	.5	.0	.0	90.8
TOT PCT	5.2	1.1	1.3	.0	.0	.0	.0	7.7	1.5	.8	.0	.0	.2	.0	.0	90.0
TOT OBS:	522															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	2.3	.2	.0	.0	.0		3.7	5.7	4.9	.0	1.3	2.1	6.5	.0	1.9	5.5
NE	1.5	5.9	.7	.0	.0	.0		8.1	6.2	9.8	.0	13.8	4.4	3.2	.0	6.0	12.5
E	1.9	13.5	9.3	1.9	.3	.0		26.9	11.1	29.2	.0	26.3	20.1	39.4	66.7	38.0	23.4
SE	3.0	11.9	16.0	3.6	.4	.0		35.0	12.7	39.8	100.0	39.7	39.1	38.4	33.3	34.7	26.0
S	1.8	4.7	2.3	.4	.3	.0		9.6	9.5	10.2	.0	11.6	11.7	4.6	.0	2.8	10.9
SW	.3	2.0	.2	.1	.0	.0		2.7	7.2	4.5	.0	1.8	1.6	1.9	.0	6.0	2.7
W	.3	2.0	.5	.1	.0	.0		2.8	7.8	.0	.0	3.6	3.1	1.9	.0	6.9	2.4
NW	1.2	.9	.3	.0	.0	.0		2.4	5.3	.0	.0	.0	3.1	2.3	.0	.0	4.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.9							8.9	.0	1.5	.0	1.8	14.8	1.9	.0	3.7	12.6
TOT OBS	116	249	170	35	6	0	576		9.6	66	1	56	169	54	9	54	167
TOT PCT	20.1	43.2	29.5	6.1	1.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.3	1.4	.0	.0	.0		3.7	5.7	4.9	1.9	5.6	4.6
NE	4.9	3.2	.0	.0	.0		8.1	6.2	9.7	6.8	2.8	10.5
E	8.6	12.8	4.6	1.0	.0		26.9	11.1	28.7	21.7	43.3	26.9
SE	8.5	16.4	9.3	.8	*		35.0	12.7	40.7	39.2	37.7	28.2
S	4.3	4.2	.8	.2	.1		9.6	9.5	10.1	11.7	4.0	8.9
SW	1.5	1.1	.1	.0	.0		2.7	7.2	4.5	1.7	1.6	3.5
W	1.6	.9	.3	.0	.0		2.8	7.8	.0	3.2	1.6	3.5
NW	1.9	.3	.2	.0	.0		2.4	5.3	.0	2.3	2.0	3.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.9						8.9	.0	1.5	11.6	1.6	10.4
TOT OBS	244	232	88	11	1	576		9.6	67	225	63	221
TOT PCT	42.4	40.3	15.3	1.9	.2		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1856-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.5	.0	44.8	44.8	7.5	1.5	.0	13.1	100.0	67
06&09	11.6	10.2	44.4	27.1	6.7	.0	.0	9.1	100.0	225
12&15	1.6	1.6	31.7	54.0	9.5	1.6	.0	13.2	100.0	63
18&21	10.4	18.6	44.8	20.4	4.1	1.8	.0	8.0	100.0	221
TOT	51	65	249	170	35	6	0	9.6		576
PCT	8.9	11.3	43.2	29.5	6.1	1.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.9	.4	1.7		5.2
NE	2.6	2.4	2.7	1.8		4.3
E	7.1	7.1	13.3	5.9		4.9
SE	10.7	10.1	11.8	6.3		4.3
S	3.4	.8	2.1	.0		3.0
SW	1.1	.9	.0	.1		2.9
W	1.4	.9	.5	.4		3.4
NW	.1	.0	.5	.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	.9	.5	.0	.5		3.7
TOT OBS	60	50	66	35	211	4.4
TOT PCT	28.4	23.7	31.3	16.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.4	.0	.5	.0	.0	.4	2.8	
NE	.0	.0	.0	.6	1.7	.0	.5	.0	.0	.1	6.6	
E	.4	1.4	1.8	2.3	3.2	2.7	.0	.5	.0	.0	21.2	
SE	1.1	.5	.6	2.0	4.9	2.1	.5	.5	.0	.0	26.8	
S	.0	.0	.0	.4	.4	.4	.0	.0	.0	.0	5.3	
SW	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	2.0	
W	.0	.0	.0	.0	.4	.5	.0	.0	.0	.0	2.4	
NW	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	3	4	5	12	24	12	3	2	0	1	145	211
TOT PCT	1.4	1.9	2.4	5.7	11.4	5.7	1.4	.9	.0	.5	68.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	2.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8
= OR >2000	5.6	7.5	8.0	8.0	8.0	8.0	8.0	8.0
= OR >1000	14.6	18.8	19.2	19.2	19.2	19.2	19.2	19.2
= OR >600	18.8	24.4	24.9	24.9	24.9	24.9	24.9	24.9
= OR >300	19.7	26.3	27.7	27.7	27.7	27.7	27.7	27.7
= OR >150	19.7	27.7	29.6	29.6	29.6	29.6	29.6	29.6
= OR > 0	20.7	28.6	30.5	31.0	31.0	31.0	31.0	31.0
TOTAL	44	61	65	66	66	66	66	66

TOTAL NUMBER OF OBS: 213

PCT FREQ NH <5/8: 69.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
3.2	21.3	16.3	14.9	12.2	6.3	10.0	5.0	10.0	.9	221

MARCH

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1856-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.2	.0	.2	.1	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.2	.1	.0	.0	.0	.0	.0	.6	
2<5	PCP	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.2	1.7	2.1	.4	.2	.2	.2	.0	.8	5.8	
	TOT %	.0	.2	2.3	2.1	.4	.2	.2	.2	.0	.8	6.4	
5<10	PCP	.1	.3	.8	1.1	.7	.2	.0	.0	.0	.2	3.5	
	NO PCP	.1	.7	5.0	7.4	2.2	.3	.7	.6	.0	.6	17.6	
	TOT %	.3	1.0	5.8	8.5	2.9	.5	.7	.6	.0	.8	21.1	
10+	PCP	.2	.0	.7	.8	.4	.0	.0	.0	.0	.6	2.7	
	NO PCP	3.2	7.1	18.5	23.3	4.4	1.9	2.0	1.7	.0	7.2	69.2	
	TOT %	3.4	7.1	19.2	24.1	4.8	1.9	2.0	1.7	.0	7.7	72.0	
	TOT OBS												517
	TOT PCT	3.7	8.5	27.4	35.0	8.3	2.6	2.9	2.5	.0	9.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0		.2	
	TOT %	.0	.2	.2	.2	.1	.0	.0	.2	.0	.0	.9	
2<5	0-3	.0	.2	.2	.0	.2	.0	.0	.2	.0	.7	1.5	
	4-10	.0	.0	.5	1.0	.0	.2	.0	.0	.0		1.7	
	11-21	.0	.0	1.0	.8	.2	.0	.2	.0	.0		2.2	
	22+	.0	.0	.9	.7	.0	.0	.0	.0	.0		1.7	
	TOT %	.0	.2	2.6	2.6	.4	.2	.2	.2	.0	.7	7.0	
5<10	0-3	.1	.2	.2	.2	.9	.0	.0	.2	.0	.7	2.6	
	4-10	.1	.5	2.7	3.2	1.2	.5	.7	.2	.0		9.0	
	11-21	.0	.3	2.2	2.7	.6	.0	.2	.2	.0		6.1	
	22+	.0	.0	.5	2.1	.2	.0	.0	.0	.0		2.8	
	TOT %	.3	1.0	5.5	8.3	2.8	.5	.9	.6	.0	.7	20.5	
10+	0-3	1.0	1.2	1.5	3.0	.7	.4	.3	.7	.0	7.6	16.2	
	4-10	2.0	5.5	10.5	7.7	2.7	1.1	1.4	.7	.0		31.5	
	11-21	.2	.5	6.0	12.3	1.4	.2	.1	.2	.0		20.8	
	22+	.0	.0	.9	.9	.3	.1	.1	.0	.0		2.4	
	TOT %	3.2	7.1	18.8	23.8	5.2	1.8	1.9	1.6	.0	7.6	71.0	
	TOT OBS												542
	TOT PCT	3.5	8.5	27.3	35.3	8.5	2.4	3.0	2.5	.0	9.0	100.0	

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1858-1977

AREA 0011 NEW CALEDONIA
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	1.8	1.8	5.3	10.5	5.3	.0	1.8	.0	1.8	28.1	71.9	57
06&09	3.6	3.6	1.8	3.6	7.3	1.8	3.6	.0	.0	.0	25.5	74.5	55
12&15	2.0	.0	5.9	7.8	13.7	5.9	2.0	2.0	.0	.0	39.2	60.8	51
18&21	.0	1.9	1.9	5.6	13.0	9.3	.0	.0	.0	.0	31.5	68.5	54
TOT	3	4	6	12	24	12	3	2	0	1	67	150	217
PCT	1.4	1.8	2.8	5.5	11.1	5.5	1.4	.9	.0	.5	30.9	69.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	3.3	8.3	88.3	60
06&09	.0	.9	1.4	12.2	29.6	55.9	213
12&15	.0	.0	1.6	9.8	14.8	73.8	61
18&21	.5	.0	.5	1.9	16.9	80.3	213
TOT	1	2	5	38	113	388	547
PCT	.2	.4	.9	6.9	20.7	70.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.6	9.1	20.0	70.9	55
06&09	3.8	9.4	13.2	11.3	75.5	53
12&15	2.0	7.8	15.7	23.5	60.8	51
18&21	.0	3.7	11.1	20.4	68.5	54
TOT	3	13	26	40	147	213
PCT	1.4	6.1	12.2	18.8	69.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
90/94	.0	.0	.0	.2	.6	.6	.2	.0	8	1.6
85/89	.0	.0	.0	.0	1.2	3.1	2.1	.2	32	6.6
80/84	.0	.0	.0	.6	3.7	13.0	18.1	8.2	212	43.6
75/79	.0	.0	.0	.4	3.1	12.1	16.5	13.2	220	45.3
70/74	.0	.0	.0	.0	.0	.4	.6	1.4	12	2.5
65/69	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	0	6	42	143	182	113	486	100.0
PCT	.0	.0	.0	1.2	8.6	29.4	37.4	23.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
	.2	.1	.2	.2	.0	.2	.0	.0	.0	.8
	.2	1.5	1.5	1.2	.3	.0	.3	.2	.0	1.4
	2.7	4.6	11.6	11.0	3.8	1.1	2.0	1.5	.0	5.3
	.9	2.3	11.8	20.7	5.2	1.3	.8	.9	.0	1.4
	.0	.0	.8	1.6	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
	4.0	8.6	25.9	34.8	9.5	2.6	3.0	2.6	.0	9.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	87	86	81	75	67	67	80.7	67
06&09	96	90	87	80	75	65	62	80.1	222
12&15	84	83	82	79	76	73	73	79.0	63
18&21	92	90	86	79	75	70	68	79.3	223
TOT	96	90	86	79	75	69	62	79.7	575

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.7	20.3	30.5	33.9	13.6	79	59
06&09	.0	1.1	5.9	29.8	34.0	29.3	83	188
12&15	.0	.0	10.2	28.6	49.0	12.2	81	49
18&21	.0	1.5	7.2	28.4	39.2	23.7	82	194
TOT	0	6	42	143	184	115	82	490

MARCH

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1856-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.4	.4	2	.0	.8
11/13	.0	.0	.0	.0	.0	.0	.0	1.1	3	.0	1.1
7/8	.0	.0	.0	.4	.8	.0	.0	.0	3	.0	1.1
6	.0	.0	.0	.4	.0	.4	.8	.0	4	.0	1.5
5	.0	.0	.0	.0	.4	2.7	.4	.4	10	.0	3.8
4	.0	.0	.0	.0	.4	1.5	1.5	.0	9	.0	3.4
3	.0	.0	.0	.0	.4	2.7	.0	.0	8	.0	3.0
2	.0	.0	.0	.0	2.7	4.5	.0	.0	19	.0	7.2
1	.0	.0	.0	.0	3.0	4.9	.4	.0	22	.0	8.3
0	.0	.0	.0	1.1	7.2	8.0	.0	.0	43	.0	16.7
-1	.0	.0	.0	.8	8.0	4.5	.0	.0	35	.0	13.3
-2	.0	.0	.0	1.1	8.3	3.8	.4	.0	36	.0	13.6
-3	.0	.0	.0	1.1	6.8	1.5	.0	.0	25	.0	9.5
-4	.0	.0	.4	1.9	4.5	.8	.0	.0	20	.0	7.6
-5	.0	.0	.0	.4	3.4	.0	.0	.0	10	.0	3.8
-6	.0	.0	.0	.0	2.3	.0	.0	.0	6	.0	2.3
-7/-8	.0	.0	.0	1.5	1.1	.0	.0	.0	7	.0	2.7
-9/-10	.4	.0	.0	.4	.0	.0	.0	.0	2	.0	.4
TOTAL	1		1		130		10			0	264
		0		24		93		5	264		
PCT	.4	.0	.4	9.1	49.3	35.2	3.8	1.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	1.0	.6	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†OT PCT	.0	3.9	.6	.0	.0	.0	4.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	4.8	.9	.0	.0	.0	5.7
3-4	.0	1.0	.3	.0	.0	.0	1.3
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†OT PCT	.0	7.3	2.4	.0	.0	.0	9.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.6	.0	.0	.0	1.2
1-2	1.2	6.1	3.3	.0	.0	.0	10.6
3-4	.0	4.5	5.8	1.0	.0	.0	11.3
5-6	.0	.0	2.2	.6	.6	.0	3.4
7	.0	.0	1.6	.4	.0	.0	2.1
8-9	.0	.0	.4	1.0	.0	.0	1.5
10-11	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†OT PCT	1.2	11.2	14.6	3.1	1.0	.0	31.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	4.8	.7	.0	.0	.0	5.5
3-4	.0	2.5	9.7	.7	.0	.0	12.9
5-6	.0	.0	6.8	.6	.0	.0	7.4
7	.0	.0	4.9	.1	.0	.0	5.1
8-9	.0	.0	2.3	.7	.0	.0	3.3
10-11	.0	.0	.6	.0	.6	.0	1.2
12	.0	.0	.0	.6	.6	.0	1.2
13-16	.0	.0	.0	.6	.1	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†OT PCT	1.2	8.0	25.3	3.4	1.3	.0	38.1

MARCH

PERIOD: (OVER-ALL) 1963-1977

TABLE 18 (CONT)

AREA 0011 NEW CALEDONIA 21.7S 165.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	1.9	1.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.4	1.5	.0	.0	.0	1.9	.0	.6	.6	.0	.0	.0	1.2
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	3.6	.0	.0	.0	7.6	.0	1.8	.7	.0	.0	.0	2.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.8	.0	.0	.0	.0	1.8	.0	.7	.0	.0	.0	.0	.7	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.0	.4	.0	.0	.0	3.4	.0	.7	.0	.0	.0	.0	.7	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	8.2	.6	.0	.0	.0	12.4	
1-2	1.2	21.2	5.9	.0	.0	.0	28.2	
3-4	.0	10.0	18.2	1.8	.0	.0	30.0	
5-6	.0	.0	11.8	1.2	.6	.0	13.5	
7	.0	.0	6.5	.6	.0	.0	7.1	
8-9	.0	.0	2.9	1.8	.0	.0	4.7	
10-11	.0	.0	1.2	.0	.6	.0	1.8	
12	.0	.0	.0	.6	.6	.0	1.2	
13-16	.0	.0	.0	.6	.6	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.7	39.4	47.1	6.5	2.4	.0	100.0	170

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	7.0	12.3	7.0	3.7	.5	1.6	.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	4
6-7	.0	.5	8.0	8.6	5.3	2.7	2.1	1.1	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	6
8-9	.0	1.1	3.2	4.8	7.5	2.1	2.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
10-11	.0	.5	.5	1.1	.0	.5	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
12-13	.0	.0	.5	.5	1.1	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
>13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	1.1	.0	.0	.5	.5	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
TOTAL	6	17	46	43	34	11	15	5	10	0	0	0	0	0	0	0	0	0	0	187	6
PCT	3.2	9.1	24.6	23.0	18.2	5.9	8.0	2.7	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1874-1977

AREA 0011 NEW CALEDONIA
21.7S 165.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	.0	.0	.0	.0	.0	92.5
NE	8.2	4.1	.0	.0	.0	.0	4.1	16.3	.0	1.0	.0	.0	.0	.0	.0	82.7
E	2.4	1.9	6.9	.0	.0	.0	.0	11.1	.0	.5	.7	.0	.7	.0	.0	87.0
SE	2.2	1.1	1.5	.0	.0	.0	.0	4.8	.5	.6	.0	.0	.5	.0	.0	93.6
S	5.1	.0	.0	.0	.0	.0	.0	5.1	.0	.0	.0	.0	.0	.0	.0	94.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	13.3	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0	.0	86.7
NW	.0	8.3	.0	.0	.0	.0	.0	8.3	8.3	.0	.0	.0	.0	.0	.0	83.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.5	1.5	3.1	.0	.0	.0	.2	7.3	.4	.6	.2	.0	.4	.0	.0	91.0
TOT OBS:	480															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.9	1.4	1.4	.0	.0	.0	.0	5.7	2.9	1.4	1.4	.0	.0	.0	.0	88.6
06&09	2.4	1.8	6.0	.0	.0	.0	.0	10.1	.0	.0	.0	.0	.6	.0	.0	89.3
12&15	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	98.3
18&21	3.7	1.6	2.1	.0	.0	.0	.5	7.9	.0	.5	.0	.0	.5	.0	.0	91.0
TOT PCT	2.7	1.4	3.1	.0	.0	.0	.2	7.4	.4	.6	.2	.0	.4	.0	.0	91.0
TOT OBS:	487															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.0	.7	.2	.0	.0		2.2	9.8	.0	.0	.0	1.4	5.7	.0	4.7	2.9
NE	1.2	1.7	1.8	.4	.0	.0		5.1	10.5	5.1	33.3	3.9	2.7	4.5	.0	2.3	8.1
E	4.0	11.8	12.8	2.1	.2	.0		30.9	11.3	23.2	66.7	15.9	40.2	12.3	50.0	26.7	38.7
SE	3.0	15.1	18.2	4.6	.2	.0		41.2	12.6	53.6	.0	63.8	33.9	55.7	20.0	50.0	27.1
S	1.4	4.4	2.2	.4	.0	.0		8.5	8.6	13.4	.0	7.8	8.5	14.3	30.0	4.7	4.8
SW	.5	1.4	.4	.0	.0	.0		2.2	7.2	.4	.0	2.2	2.4	4.1	.0	4.7	1.8
W	1.1	.9	.8	.1	.0	.0		3.0	7.9	.0	.0	3.0	5.6	.0	.0	1.7	3.7
NW	.6	.8	.6	.6	.0	.0		2.6	12.2	4.3	.0	1.7	.9	3.3	.0	.6	4.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0	.0	.0	1.7	4.3	.0	.0	4.7	8.9
TOT OBS	88	198	201	45	2	0	534		10.9	69	3	58	138	61	5	43	157
TOT PCT	16.5	37.1	37.6	8.4	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.8	1.2	.2	.0	.0		2.2	9.8	.0	1.0	5.3	3.3
NE	1.9	1.9	1.0	.2	.0		5.1	10.5	6.3	3.1	4.2	6.9
E	9.8	13.5	7.3	.4	.0		30.9	11.3	29.0	33.0	15.2	36.1
SE	9.1	20.3	10.2	1.5	.0		41.2	12.6	51.4	42.7	53.0	32.0
S	3.9	3.8	.6	.1	.0		8.5	8.6	12.8	8.3	15.5	4.8
SW	1.2	1.1	.0	.0	.0		2.2	7.2	.3	2.3	3.8	2.4
W	1.8	.8	.3	.0	.0		3.0	7.9	.0	4.8	.0	3.3
NW	.8	1.2	.4	.2	.0		2.6	12.2	4.2	1.1	3.0	3.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.3						4.3	.0	.0	3.6	.0	8.0
TOT OBS	180	234	107	13	0	534		10.9	72	196	66	200
TOT PCT	33.7	43.8	20.0	2.4	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1874-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	2.8	25.0	51.4	20.8	.0	.0	15.0	100.0	72
06&09	3.6	13.8	38.8	35.7	7.7	.5	.0	10.8	100.0	196
12&15	.0	9.1	30.3	54.5	4.5	1.5	.0	12.4	100.0	66
18&21	8.0	15.0	42.0	29.0	6.0	.0	.0	9.0	100.0	200
TOT	23	65	198	201	45	2	0	10.9		534
PCT	4.3	12.2	37.1	37.6	8.4	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.5	.4	.0		3.1
NE	.7	1.1	1.9	1.5		5.4
E	6.4	3.7	5.9	3.2		4.2
SE	18.8	17.9	17.0	4.3		3.8
S	2.8	1.4	3.1	.9		4.2
SW	.5	.7	1.5	.0		4.6
W	.4	.9	.0	.0		2.7
NW	.6	.0	1.0	1.0		5.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.5		8.0
TOT OBS	64	53	62	23	202	4.0
TOT PCT	31.7	26.2	30.7	11.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
NE	.0	.0	.5	.0	1.1	.1	.5	.0	.0	.0	3.0	
E	.0	.0	.0	.5	3.3	1.4	.4	.0	.0	.0	13.7	
SE	.0	.5	2.0	3.1	6.1	2.0	1.1	.0	.0	.0	43.3	
S	.0	.0	.0	.4	1.9	.0	.0	.0	.0	.0	5.9	
SW	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	2.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
NW	.5	.0	.0	.5	.5	.0	.0	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	
TOT OBS	1	1	5	9	27	7	5	0	0	0	147	202
TOT PCT	.5	.5	2.5	4.5	13.4	3.5	2.5	.0	.0	.0	72.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
* OR >2000	4.9	5.4	5.4	5.4	5.4	5.4	5.4	5.4
* OR >1000	16.2	18.1	18.6	18.6	18.6	18.6	18.6	18.6
* OR >600	18.6	21.1	22.5	22.5	22.5	22.5	22.5	22.5
* OR >300	20.1	23.0	24.5	25.0	25.0	25.0	25.0	25.0
* OR >150	20.1	23.5	25.0	25.5	25.5	25.5	25.5	25.5
* OR > 0	20.1	23.5	25.5	26.0	26.0	26.0	26.0	26.0
TOTAL	41	48	52	53	53	53	53	53

TOTAL NUMBER OF OBS: 204 PCT FREQ NH <5/8: 74.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.6	19.6	21.0	16.8	9.8	8.4	7.0	5.1	6.1 .5	214

APRIL

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1874-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.8	.1	.2	.0	.4	.0	.0	.0	1.5	
1<2	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.8	.3	.2	.0	.4	.0	.0	.0	1.7	
	PCP	.0	.4	.5	.3	.0	.0	.0	.2	.0	.0	1.5	
2<5	NO PCP	.0	.1	1.7	2.1	.5	.4	.0	.2	.0	.0	5.0	
	TOT %	.0	.5	2.2	2.4	.5	.4	.0	.4	.0	.0	6.5	
	PCP	.0	.2	.6	1.1	.0	.0	.0	.0	.0	.0	1.9	
5<10	NO PCP	.6	.7	5.4	3.1	1.9	.0	.6	.0	.0	.6	12.9	
	TOT %	.6	.9	5.9	4.2	1.9	.0	.6	.0	.0	.6	14.8	
	PCP	.0	.2	1.5	.6	.2	.0	.0	.0	.0	.0	2.5	
10+	NO PCP	1.5	3.5	19.9	34.9	5.3	1.5	2.1	2.1	.0	3.8	74.6	
	TOT %	1.5	3.7	21.5	35.5	5.5	1.5	2.1	2.1	.0	3.8	77.1	
	TOT OBS												480
	TOT PCT	2.1	5.1	30.4	42.4	8.1	1.9	3.1	2.9	.0	4.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.1	.2	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.6	
	0-3	.0	.0	.4	.0	.1	*	.4	.0	.0	.0	1.0	
1<2	4-10	.2	.2	.9	.7	.0	.0	.0	.0	.0		2.0	
	11-21	.0	.0	.2	.2	.2	.0	.2	.0	.0		.8	
	22+	.0	.2	.0	.2	.0	.0	.0	.0	.0		.4	
	TOT %	.2	.4	1.5	1.1	.3	*	.6	.0	.0	.0	4.2	
	0-3	.0	.0	.5	.7	.0	.2	.0	.0	.0	.0	1.4	
2<5	4-10	.0	*	.9	1.2	.3	.4	.0	.0	.0		3.0	
	11-21	.0	.2	.6	.1	.0	.0	.0	.0	.0		1.0	
	22+	.0	.2	.2	.2	.1	.0	.0	.4	.0		1.2	
	TOT %	.0	.4	2.3	2.3	.5	.6	.0	.4	.0	.0	6.5	
	0-3	.0	.2	.9	*	.0	.0	.4	.0	.0	.6	2.2	
5<10	4-10	.4	.2	2.6	1.3	.9	.0	.2	.0	.0		5.5	
	11-21	.2	.5	2.4	2.5	.9	.0	.0	.0	.0		6.5	
	22+	.0	.0	.2	.4	.0	.0	.0	.0	.0		.6	
	TOT %	.6	.9	6.1	4.3	1.8	.0	.6	.0	.0	.6	14.9	
	0-3	.4	1.0	2.4	2.2	1.2	.2	.4	.4	.0	3.6	11.9	
10+	4-10	.4	1.2	7.7	11.7	2.9	.7	.7	.7	.0		26.1	
	11-21	.5	1.2	8.7	15.9	.9	.4	.7	.6	.0		29.1	
	22+	.2	*	1.6	4.0	.3	.0	.1	.2	.0		6.5	
	TOT %	1.6	3.5	20.4	33.9	5.3	1.4	2.0	2.0	.0	3.6	73.7	
	TOT OBS												505
	TOT PCT	2.4	5.2	30.6	42.0	8.0	2.1	3.2	2.4	.0	4.2	100.0	

APRIL

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1874-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.5	.0	2.9	4.4	13.2	7.4	1.5	.0	.0	.0	30.9	69.1	68
06&09	.0	1.8	.0	3.5	12.3	3.5	5.3	.0	.0	.0	26.3	73.7	57
12&15	.0	.0	2.0	8.0	10.0	.0	2.0	.0	.0	.0	22.0	78.0	50
18&21	.0	.0	5.6	.0	16.7	.0	.0	.0	.0	.0	22.2	77.8	36
TOT	1	1	5	9	27	7	5	0	0	0	55	156	211
PCT	.5	.5	2.4	4.3	12.8	3.3	2.4	.0	.0	.0	26.1	73.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	1.4	2.8	8.5	87.3	71
06&09	.5	1.6	11.1	13.2	16.3	57.4	190
12&15	.0	.0	.0	1.7	11.7	86.7	60
18&21	.0	.5	.0	2.6	16.1	80.7	192
TOT	1	4	22	33	75	378	513
PCT	.2	.8	4.3	6.4	14.6	73.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.5	4.5	9.0	22.4	68.7	67
06&09	.0	1.9	5.6	20.4	74.1	54
12&15	.0	2.0	8.2	12.2	79.6	49
18&21	.0	5.9	11.8	14.7	73.5	34
TOT	1	7	17	37	150	204
PCT	.5	3.4	8.3	18.1	73.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
85/89	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
80/84	.0	.0	.0	.2	4.4	9.2	8.7	2.6	115	25.1
75/79	.0	.0	.2	.7	5.4	22.9	21.8	11.3	286	62.3
70/74	.0	.0	.2	.0	2.4	4.4	2.8	2.4	56	12.2
TOTAL	0	0	2	6	56	167	153	75	459	100.0
PCT	.0	.0	.4	1.3	12.2	36.4	33.3	16.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
.5	1.9	10.5	8.1	1.6	.3	1.0	1.1	.0	.0
.8	2.7	17.2	28.8	4.5	1.9	1.8	1.3	.0	3.3
.4	.5	4.0	4.6	1.2	.0	.0	.2	.0	1.3
1.7	5.2	31.9	41.7	7.4	2.2	2.8	2.6	.0	4.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	98	97	84	79	73	70	70	79.2	74
06&09	91	86	83	78	73	72	72	78.1	196
12&15	82	81	81	77	73	70	70	77.0	66
18&21	95	84	82	77	73	72	68	77.2	201
TOT	98	85	82	77	73	72	68	77.8	537

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.4	19.0	34.5	32.8	10.3	77	58
06&09	.0	1.1	10.9	40.8	29.9	17.2	80	174
12&15	.0	.0	16.4	36.4	36.4	10.9	79	55
18&21	.0	2.2	10.6	31.8	36.3	19.0	81	179
TOT	0	8	58	168	156	76	80	466

APRIL

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1874-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.8	2	.0	.8
14/16	.0	.0	.0	.0	.8	.0	2	.0	.8
9/10	.0	.0	.0	.4	.0	.4	2	.0	.8
7/8	.0	.0	.0	.4	.0	.0	1	.0	.4
5	.0	.0	.0	1.2	.4	.0	4	.0	1.6
4	.0	.0	1.6	1.6	.0	.0	8	.0	3.2
3	.0	.0	1.2	2.0	.8	.0	10	.0	4.0
2	.0	.8	2.0	5.2	.0	.0	20	.0	8.0
1	.0	.0	4.8	2.8	.0	.0	19	.0	7.6
0	.0	1.2	8.8	5.2	.0	.0	38	.0	15.2
-1	.0	4.4	9.2	3.2	.0	.0	42	.0	16.8
-2	.0	4.0	7.2	1.2	.0	.0	31	.4	12.0
-3	.4	4.0	6.0	.4	.0	.0	27	.0	10.8
-4	.0	4.0	2.4	.0	.0	.0	16	.0	6.4
-5	.4	4.4	2.0	.0	.0	.0	17	.0	6.8
-6	.0	2.8	.0	.0	.0	.0	7	.0	2.8
-7/-8	.4	.4	.0	.0	.0	.0	2	.0	.8
-9/-10	.4	.0	.0	.0	.0	.0	1	.0	.4
-11/-13	.0	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	4	66	113	59	5	2	250	1	249
PCT	1.6	26.4	45.2	23.6	2.0	1.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.4	.0	.0	.0	.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.6	1.3	.0	.0	.0	1.8
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.6	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	2.8	.6	.0	.0	4.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0
1-2	.0	1.5	3.1	.0	.0	.0	4.6
3-4	.0	.0	5.1	.0	.0	.0	5.1
5-6	.0	.0	7.2	.6	.0	.0	7.8
7	.0	.0	2.1	.8	.0	.0	2.9
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.1	17.9	1.9	.0	.0	22.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.8	.0	.0	.0	.0	3.1
1-2	.6	2.8	7.6	.0	.0	.0	11.0
3-4	.0	4.0	14.7	1.1	.0	.0	19.9
5-6	.0	1.7	9.9	1.3	.6	.0	13.3
7	.0	.0	3.5	3.1	.0	.0	6.5
8-9	.0	.0	.7	.6	.0	.0	1.3
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.6	.0	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	10.3	36.9	6.5	.6	.0	56.1

PERIOD: (OVER-ALL) 1963-1977 APRIL AREA 0011 NEW CALEDONIA 21.7S 165.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.1	.0	.0	.0	.0	2.6
1-2	.0	2.1	.4	.0	.0	.0	2.5
3-4	.0	1.0	.0	.0	.0	.0	1.0
5-6	.0	.0	1.5	.4	.0	.0	1.9
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.1	3.1	.4	.0	.0	9.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	1.1	1.1	.0	.0	.0	2.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	1.3	.0	.0	.0	3.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	1.0	.4	.0	.0	1.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.7	.0	.0	.0	.0	.7	
3-4	.0	.0	.6	.0	.0	.0	.6	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	1.1	.0	.0	1.1	
8-9	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.7	.6	1.3	.0	.0	2.5	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.2	4.4	.0	.0	.0	.0	6.7	
1-2	.6	8.9	11.1	.0	.0	.0	20.6	
3-4	.0	6.7	22.8	1.1	.0	.0	30.6	
5-6	.0	1.7	21.7	2.2	.6	.0	26.1	
7	.0	.0	6.7	5.6	.0	.0	12.2	
8-9	.0	.0	1.1	1.1	.0	.0	2.2	
10-11	.0	.0	.0	1.1	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.6	.0	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								180
TOT PCT	2.8	21.7	63.9	11.1	.6	.0	100.0	

PERIOD: (OVER-ALL) 1952-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	8.3	7.8	9.8	1.6	1.6	1.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	4
6-7	.0	.0	2.6	7.8	4.7	7.8	1.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	7
8-9	.0	.0	1.6	6.2	5.2	5.2	2.1	1.0	2.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	8
10-11	.0	.5	.0	.0	2.1	3.1	1.6	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
12-13	.0	.0	.5	.0	.0	.5	.0	.5	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	5	12
>13	.0	.0	.0	.0	1.0	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	10
INDET	4.1	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	2
TOTAL	9	17	24	46	28	36	15	5	9	3	0	1	0	0	0	0	0	0	0	193	6
PCT	4.7	8.8	12.4	23.8	14.5	18.7	7.8	2.6	4.7	1.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1875-1977

AREA 0011 NEW CALEDONIA
21.7S 165.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	20.0	7.3	.0	.0	.0	.0	.0	27.3	5.5	5.5	.0	.0	.0	.0		61.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	.0		97.9
E	1.5	2.2	.0	.0	.0	.0	.0	3.8	.7	.9	.0	.0	.0	.0		94.7
SE	.8	.3	.7	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0		98.0
S	.0	2.3	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	.0	3.0		92.5
SW	8.4	4.2	.0	.0	.0	.0	.0	12.6	1.1	8.4	.0	.0	.0	.0		77.9
W	.0	7.2	.0	.0	.0	.0	.0	7.2	3.6	.0	.0	.0	.0	.0		89.2
NW	7.1	2.9	5.7	.0	.0	.0	.0	15.7	2.9	.0	.0	.0	.0	.0		81.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	2.2	1.9	.5	.0	.0	.0	.0	4.6	1.0	1.0	.0	.0	.0	.2		93.2
TOT OBS:	413															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.5	3.0	.0	.0	.0	.0	.0	7.6	3.0	.0	.0	.0	.0	.0		89.4
06&09	1.2	1.8	.0	.0	.0	.0	.0	3.0	.0	.6	.0	.0	.0	.0		96.3
12&15	2.2	2.2	.0	.0	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0		95.6
18&21	3.3	1.3	1.3	.0	.0	.0	.0	6.0	1.3	2.0	.0	.0	.0	.7		90.0
TOT PCT	2.6	1.9	.5	.0	.0	.0	.0	4.9	.9	.9	.0	.0	.0	.2		92.9
TOT OBS:	425															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	2.1	.6	.0	.0	.0		3.1	8.6	6.9	18.8	2.0	2.0	2.4	.0	.0	3.4
NE	2.3	2.7	.6	.0	.0	.0		5.6	5.7	5.0	.0	2.5	5.5	4.9	.0	6.7	7.5
E	5.2	12.2	8.8	1.1	.0	.0		27.3	9.3	23.3	25.0	21.1	24.2	25.6	37.5	41.5	30.8
SE	4.0	15.9	13.4	3.6	.2	.0		37.1	11.7	37.7	25.0	52.9	39.8	48.8	62.5	18.9	28.9
S	1.4	4.2	2.3	.0	.0	.0		8.0	8.8	10.4	.0	5.9	6.3	6.1	.0	20.1	6.3
SW	1.0	3.2	1.4	.0	.0	.0		5.6	8.0	2.7	.0	7.8	4.1	3.0	.0	10.4	7.3
W	1.4	2.6	1.1	.1	.0	.0		5.2	7.9	7.3	18.8	5.9	7.3	4.3	.0	.0	3.4
NW	1.7	2.3	.3	.1	.0	.0		4.4	5.5	3.5	12.5	.0	6.9	.0	.0	2.4	6.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8							3.8	.0	3.1	.0	2.0	3.9	4.9	.0	.0	6.0
TOT OBS	95	203	128	22	1	0	449		9.3	65	4	51	127	41	4	41	116
TOT PCT	21.2	45.2	28.5	4.9	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

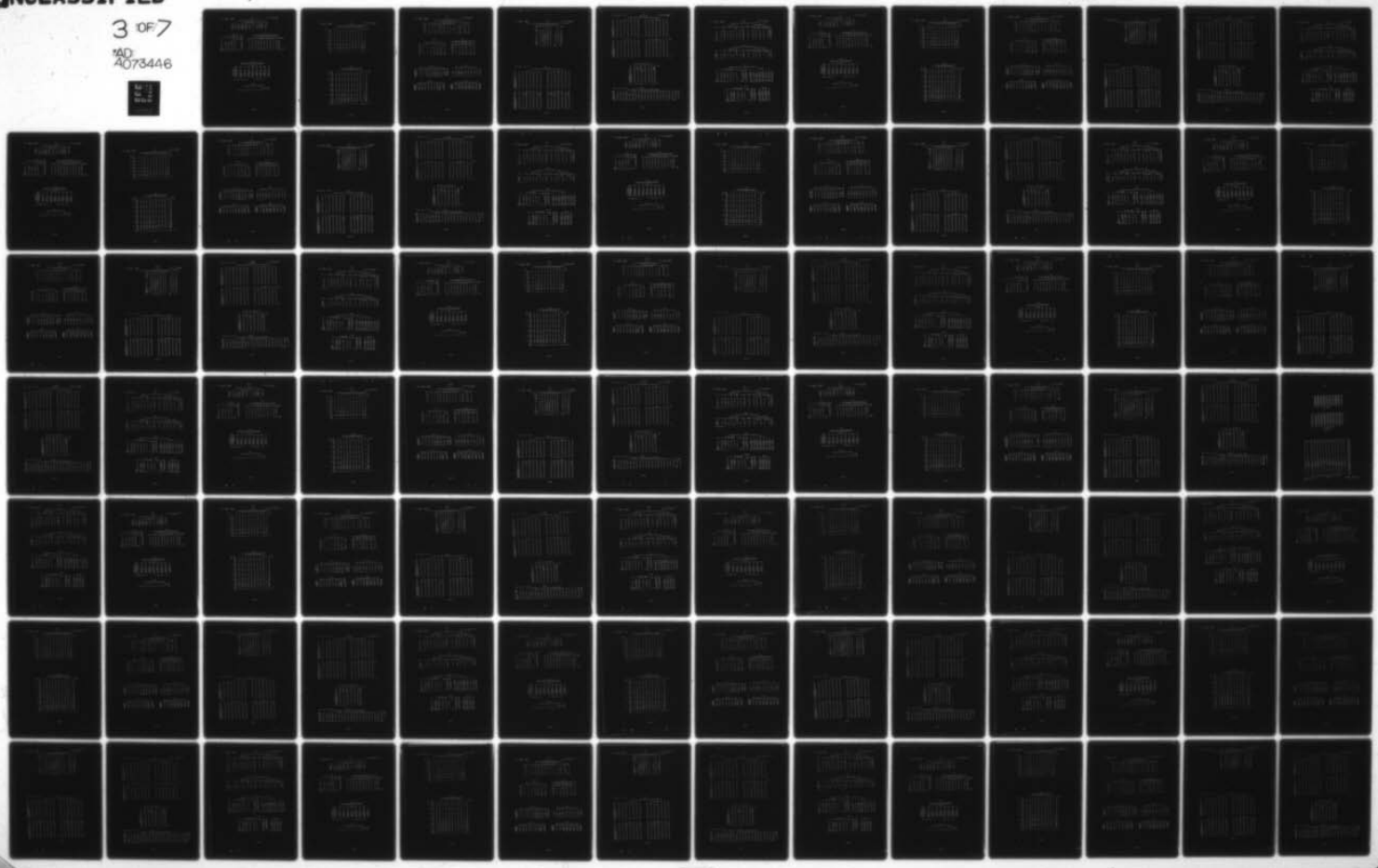
TABLE 3A

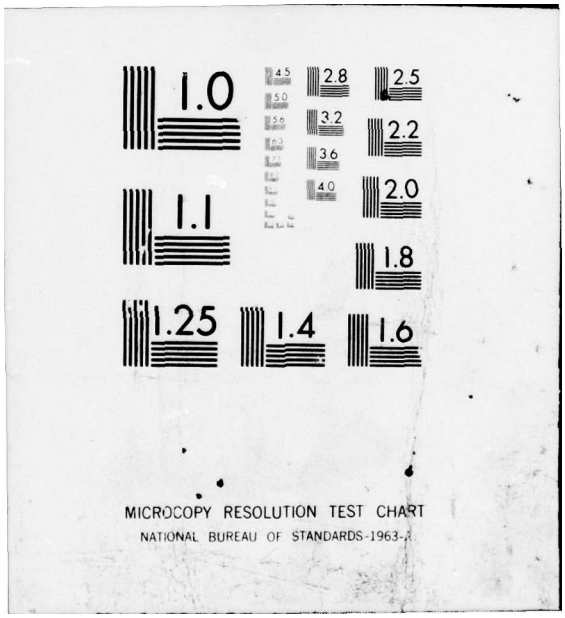
	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.1	1.8	.2	.0	.0		3.1	8.6	7.6	2.0	2.2	2.5
NE	3.6	1.7	.3	.0	.0		5.6	8.7	4.7	4.6	4.4	7.3
E	12.8	9.5	4.8	.2	.0		27.3	9.3	23.6	23.3	26.7	33.6
SE	10.5	16.3	9.1	1.2	.0		37.1	11.7	37.0	43.5	30.0	26.3
S	2.6	4.7	.7	.0	.0		8.0	8.8	9.8	6.2	5.6	9.9
SW	2.4	3.0	.2	.0	.0		5.6	8.0	2.5	5.2	2.8	8.1
W	1.9	3.0	.3	.0	.0		5.2	7.9	8.0	6.9	3.9	2.5
NW	3.3	.9	.2	.0	.0		4.4	5.5	4.0	4.9	.0	5.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.8						3.8	.0	2.9	3.4	4.4	4.5
TOT OBS	183	184	71	6	0	449		9.3	69	178	45	157
TOT PCT	41.9	41.0	15.8	1.3	.0		100.0		100.0	100.0	100.0	100.0

AD-A073 446 NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO) SELECTED--ETC(U)
SEP 79

UNCLASSIFIED NL

3 OF 7
AD A073446




1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6
6.3
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1875-1977

AREA 0011 NEW CALEDONIA
21.7S 165.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.9	2.9	44.9	43.5	5.8	.0	.0	11.7	100.0	69
06&09	3.4	19.7	47.8	23.0	5.6	.6	.0	9.0	100.0	178
12&15	4.4	4.4	37.8	37.8	15.6	.0	.0	13.1	100.0	45
18&21	4.5	24.8	44.6	25.5	.6	.0	.0	7.4	100.0	157
TOT	17	78	203	128	22	1	0	9.3		449
PCT	3.8	17.4	45.2	28.5	4.9	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	2.8	1.5		6.5
NE	1.9	.0	1.2	1.1		4.1
E	9.6	3.2	9.0	3.5		4.1
SE	9.2	13.6	13.8	4.0		4.3
S	4.3	2.9	2.7	1.1		3.9
SW	1.9	2.7	.4	.5		3.5
W	1.5	1.6	1.3	.0		3.7
NW	.5	.5	.4	.7		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.1	.5	.5	.5		4.0
TOT OBS	86	47	60	24	187	4.2
TOT PCT	29.9	25.1	32.1	12.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.5	.0	.4	.5	.5	.4	.0	.0	.0	.0	.9	
NE	.0	.0	.0	.5	.0	1.2	.0	.0	.0	.0	2.4	
E	.0	.0	.0	1.6	2.7	.5	.0	.5	.5	.0	19.4	
SE	.0	.0	.0	3.2	4.4	2.1	.0	.0	.0	.0	30.9	
S	.0	.0	.0	.5	1.5	.9	.0	.0	.0	.0	8.0	
SW	.0	.0	.0	.0	.0	.1	.0	.5	.0	.0	4.8	
W	.0	.0	.0	.4	.5	.0	.0	.0	.0	.0	3.5	
NW	.1	.0	.7	.1	.0	.0	.0	.0	.0	.0	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	2.1	
TOT OBS	3	0	2	14	18	10	0	2	1	0	137	187
TOT PCT	1.6	.0	1.1	7.5	9.6	5.3	.0	1.1	.5	.0	73.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.5	.5	.5	.5	.5	.5	.5
* OR >5000	1.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >3500	1.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >2000	5.7	7.3	7.3	7.3	7.3	7.8	7.8	7.8
* OR >1000	14.6	17.2	17.2	17.2	17.2	17.7	17.7	17.7
* OR >600	18.2	23.4	24.5	24.5	24.5	25.0	25.0	25.0
* OR >300	18.8	24.5	25.5	25.5	25.5	26.0	26.0	26.0
* OR >150	18.8	24.5	25.5	25.5	25.5	26.0	26.0	26.0
* OR > 0	18.8	25.0	27.1	27.1	27.1	27.6	27.6	27.6
TOTAL	36	48	52	52	52	53	53	53

TOTAL NUMBER OF OBS: 192

PCT FREQ NH <5/8: 72.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.5	16.0	21.0	19.0	10.5	6.5	6.0	7.0	8.0 .5	200

MAY

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1875-1977

AREA 0011 NEW CALEDONIA
21.7S 165.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.7	.0	.0	.0	.0	.0	.0	.1	.0	.0	.7	
	NO PCP	.2	.3	.5	1.5	.2	.0	.4	1.0	.0	.0	4.1	
	TOT %	.8	.3	.5	1.5	.2	.0	.4	1.1	.0	.0	4.8	
5<10	PCP	.2	.0	.5	.2	.0	.2	.4	.1	.0	.0	1.7	
	NO PCP	.2	.7	5.3	6.7	1.3	.8	.5	.8	.0	.5	16.7	
	TOT %	.4	.7	5.8	6.9	1.3	1.1	.8	.9	.0	.5	18.4	
10+	PCP	.0	.0	.5	.5	.2	.2	.0	.5	.0	.0	1.9	
	NO PCP	2.1	4.8	20.6	27.5	6.3	4.2	3.8	1.8	.0	3.6	74.6	
	TOT %	2.1	4.8	21.1	28.0	6.5	4.4	3.8	2.2	.0	3.6	76.5	
	TOT OBS												413
	TOT PCT	3.3	5.8	27.4	36.3	8.1	5.8	5.0	4.2	.0	4.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	.5	
	4-10	.0	.2	.6	.5	.0	.0	.0	.2	.0		1.6	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.6	.8	.0	.0	.2	.5	.0	.0	2.3	
2<5	0-3	.0	.0	.5	.2	.0	.0	.2	.8	.0	.0	1.6	
	4-10	.6	.1	.0	.9	.2	.0	.2	.3	.0		2.3	
	11-21	.2	.2	.0	.5	.0	.0	.0	.0	.0		.9	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.8	.3	.5	1.9	.2	.0	.4	1.0	.0	.0	5.1	
5<10	0-3	.0	.2	.7	1.4	.4	.1	.2	.0	.0	.5	3.5	
	4-10	.2	.4	1.5	2.6	.1	.5	.0	.7	.0		6.0	
	11-21	.2	.0	3.0	2.0	.8	.5	.5	.1	.0		6.9	
	22+	.0	.0	.3	.6	.0	.0	.1	.1	.0		1.2	
	TOT %	.4	.6	5.5	6.6	1.3	1.0	.8	.9	.0	.5	17.6	
10+	0-3	.4	2.1	4.1	2.5	1.0	1.0	.9	.7	.0	3.5	16.2	
	4-10	1.3	2.1	10.3	12.0	3.6	2.5	2.2	1.2	.0		35.4	
	11-21	.2	.3	5.6	10.6	1.5	.7	.5	.2	.0		19.7	
	22+	.0	.0	.4	2.8	.0	.0	.0	.0	.0		3.2	
	TOT %	2.0	4.6	20.3	28.0	6.2	4.2	3.6	2.1	.0	3.5	74.5	
	TOT OBS												432
	TOT PCT	3.2	5.8	26.9	37.4	7.7	5.5	5.0	4.6	.0	3.9	100.0	

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1875-1977

AREA 0011 NEW CALEDONIA
21.7S 165.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.0	.0	1.5	7.6	3.0	10.6	.0	.0	.0	.0	25.8	74.2	66
06&09	.0	.0	.0	7.3	14.5	1.8	.0	1.8	.0	.0	25.5	74.5	55
12&15	.0	.0	.0	7.7	7.7	7.7	.0	2.6	2.6	.0	28.2	71.8	39
18&21	2.7	.0	2.7	5.4	16.2	2.7	.0	.0	.0	.0	29.7	70.3	37
TOT	3	0	2	14	19	12	0	2	1	0	53	144	197
PCT	1.5	.0	1.0	7.1	9.6	6.1	.0	1.0	.5	.0	26.9	73.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.5	.0	.0	4.5	6.1	87.9	66
06&09	.0	.6	5.1	9.0	25.4	59.9	177
12&15	.0	.0	.0	2.2	13.0	84.8	46
18&21	.0	.6	.6	1.3	16.1	81.3	155
TOT	1	2	10	22	80	329	444
PCT	.2	.5	2.3	5.0	18.0	74.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.1	6.3	14.1	12.5	73.4	64
06&09	.0	.0	7.4	18.5	74.1	54
12&15	.0	.0	7.9	21.1	71.1	38
18&21	2.8	5.6	11.1	19.4	69.4	36
TOT	3	6	20	33	139	192
PCT	1.6	3.1	10.4	17.2	72.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.3	.3	.0	.0	.0	2	.5
80/84	.0	.0	.3	.3	1.3	2.9	1.8	.3	26	6.8
75/79	.0	.3	.3	2.1	8.4	17.4	16.1	9.7	206	54.2
70/74	.0	.0	.0	1.1	5.5	9.5	11.8	9.2	141	37.1
65/69	.0	.0	.0	.0	.0	.3	.8	.3	5	1.3
TOTAL	0	1	2	14	59	114	116	74	380	100.0
PCT	.0	.3	.5	3.7	15.5	30.0	30.5	19.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0
	.2	.6	3.0	1.5	.2	.3	.0	.5	.0	.5
	1.3	2.5	12.3	23.2	3.9	2.3	3.7	3.0	.0	2.1
	.9	2.1	10.5	11.5	3.7	3.2	2.2	1.7	.0	1.3
	.2	.1	.5	.6	.0	.0	.0	.0	.0	.0
	2.6	5.3	26.2	37.1	8.0	5.8	5.9	5.2	.0	3.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	81	81	77	73	70	70	77.0	68
06&09	83	81	80	75	71	70	69	75.2	180
12&15	81	80	80	75	72	70	70	75.1	47
18&21	85	84	79	74	70	69	68	74.4	160
TOT	85	82	80	75	71	69	68	75.2	455

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	8.2	19.7	32.8	29.5	9.8	76	61
06&09	.0	5.0	15.1	24.5	30.8	24.5	80	159
12&15	.0	2.8	13.9	44.4	27.8	11.1	78	36
18&21	.0	2.3	14.4	31.8	32.6	18.9	80	132
TOT	0	17	60	117	120	74	79	388

MAY

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1875-1977

AREA 0011 NEW CALEDONIA
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	1.2	3	.0	1.2
9/10	.0	.0	.0	.4	.0	1	.0	.4
7/8	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.0	.0	.4	.8	3	.0	1.2
4	.0	.0	.4	1.2	.8	6	.0	2.4
3	.0	.4	.8	.8	.0	5	.0	2.0
2	.0	.4	2.0	2.8	2.0	18	.0	7.2
1	.0	.8	3.2	6.4	.4	27	.0	10.8
0	.0	2.0	6.0	3.6	.0	29	.0	11.6
-1	.4	.8	6.0	5.2	.0	31	.0	12.4
-2	.0	1.2	10.4	4.4	.0	40	.0	16.1
-3	.0	3.6	8.0	2.4	.0	35	.0	14.1
-4	.0	.8	6.8	1.2	.0	22	.0	8.8
-5	.0	.0	2.4	.8	.0	8	.0	3.2
-6	.0	.8	2.0	.4	.0	8	.0	3.2
-7/-8	.0	1.6	2.8	.0	.0	11	.0	4.4
-9/-10	.0	.0	.4	.0	.0	1	.0	.4
TOTAL	1	41	128	76	10	249	0	249
PCT	.4	12.4	51.4	30.5	5.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.6	1.1	.0	.0	.0	1.7
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.4	.0	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	1.5	.0	.0	.0	2.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.3	.1	.0	.0	.0	1.4
3-4	.0	.8	.6	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	.7	.0	.0	.0	4.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0
1-2	.0	6.3	3.9	.0	.0	.0	10.2
3-4	.6	2.9	2.9	.0	.0	.0	6.4
5-6	.0	.4	3.5	1.0	.0	.0	4.9
7	.0	.0	2.5	.0	.0	.0	2.5
8-9	.0	.0	.6	.6	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	9.6	13.4	1.5	.0	.0	26.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.1	.0	.0	.0	.0	1.8
1-2	.0	10.1	5.3	.0	.0	.0	15.4
3-4	.0	2.0	7.7	1.7	.0	.0	11.3
5-6	.0	.1	6.1	1.8	.0	.0	8.1
7	.0	.0	2.0	1.7	.0	.0	3.6
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.6	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	13.3	21.1	6.3	.6	.0	41.9

PERIOD: (OVER-ALL) 1963-1977 MAY AREA 0011 NEW CALEDONIA 21.75 165.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.1	1.3	.0	.0	.0	4.3
3-4	.0	2.5	1.1	.0	.0	.0	3.6
5-6	.0	1.5	1.0	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	3.4	.0	.0	.0	10.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	2.4	.6	.0	.0	.0	2.9
3-4	.0	.2	.6	.0	.0	.0	.8
5-6	.0	.7	.6	.0	.0	.0	1.3
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	2.2	.0	.0	.0	6.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.6	.0	.0	.0	1.0
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	1.0	1.1	.0	.0	.0	2.1
5-6	.0	.6	.0	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	1.7	.0	.0	.0	5.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.0	.0	.0	.0	.0	.1	
1-2	.0	.6	.0	.0	.0	.0	.6	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.6	.1	.0	.0	.0	.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.1	.1	.0	.0	.0	1.4	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	2.7	.5	.0	.0	.0	8.2	
1-2	.0	25.8	11.0	.0	.0	.0	36.8	
3-4	.5	9.9	14.8	1.6	.0	.0	26.9	
5-6	.0	3.8	11.5	2.7	.0	.0	18.1	
7	.0	.5	4.9	1.6	.0	.0	7.1	
8-9	.0	.0	.5	1.1	.0	.0	1.6	
10-11	.0	.0	.0	.0	.5	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.5	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	42.9	43.4	7.7	.5	.0	100.0	182

PERIOD: (OVER-ALL) 1955-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	13.6	9.9	9.9	3.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	4
6-7	.0	.5	2.6	7.9	7.9	4.7	2.6	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	7
8-9	.0	.0	3.7	5.8	5.2	2.1	2.1	1.0	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	7
10-11	.0	.0	.0	2.1	1.0	.5	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	8
12-13	.0	.0	.5	.5	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
>13	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	1.6	.5	1.6	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
TOTAL	4	28	35	50	36	17	10	4	5	2	0	0	0	0	0	0	0	0	0	191	5
PCT	2.1	14.7	18.3	26.2	18.8	8.9	5.2	2.1	2.6	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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(OVER-ALL) 1890-1977

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.3	5.6	.0	.0	.0	.0	.0	13.9	.0	.0	.0	.0	.0	.0	.0	86.1
NE	9.0	2.3	.0	.0	.0	.0	.0	11.3	.0	.0	.0	.0	.0	.0	.0	88.7
E	4.5	1.7	.0	.0	.0	.0	.0	6.1	2.0	.0	1.1	.0	.0	.0	.0	90.8
SE	3.5	3.5	.2	.0	.0	.0	.0	7.2	1.9	.0	.0	.0	.0	.0	.0	90.9
S	.0	1.9	1.4	.0	.0	.0	.0	3.3	1.4	.0	.0	.0	.0	.0	.0	95.3
SW	3.7	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	96.3
W	.0	.0	4.2	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	95.8
NW	8.7	4.3	.0	.0	.0	.0	.0	13.0	.0	.0	.0	.0	.0	.0	.0	87.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	10.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	10.0	.0	80.0
TOT PCT	4.1	2.9	.7	.0	.0	.0	.0	7.2	1.2	.0	.2	.0	.2	.0	.0	91.1
TOT OBS:	418															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.6	1.6	.0	.0	.0	.0	.0	8.2	1.6	.0	.0	.0	.0	.0	.0	90.2
06&09	5.5	3.4	1.4	.0	.0	.0	.0	10.3	.0	.0	.0	.0	.0	.7	.0	89.0
12&15	1.7	3.3	.0	.0	.0	.0	.0	5.0	3.3	.0	.0	.0	.0	.0	.0	91.7
18&21	3.1	1.9	.6	.0	.0	.0	.0	5.6	1.2	.0	.6	.0	.0	.0	.0	92.5
TOT PCT	4.2	2.6	.7	.0	.0	.0	.0	7.5	1.2	.0	.2	.0	.2	.0	.0	90.9
TOT OBS:	428															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	2.6	.3	.0	.0	.0		3.9	6.1	4.7	.0	4.5	1.3	2.6	.0	2.2	7.4
NE	1.6	4.5	3.5	.7	.0	.0		10.3	9.8	10.8	.0	6.4	10.4	13.4	7.1	4.3	12.4
E	1.7	12.3	5.3	1.0	.0	.0		20.3	9.5	23.7	33.3	6.4	18.4	19.4	14.3	30.4	21.5
SE	3.7	11.1	12.8	3.4	.2	.0		31.2	12.1	33.2	66.7	39.1	33.9	23.7	21.4	29.3	29.3
S	1.5	7.9	4.0	.0	.0	.0		13.4	8.5	6.5	.0	22.4	12.5	25.4	42.9	11.4	8.5
SW	.3	4.4	2.2	.2	.0	.0		7.2	10.0	10.8	.0	8.3	6.8	6.9	.0	7.1	6.2
W	.8	2.6	1.2	.8	.0	.0		5.4	11.1	3.0	.0	3.8	8.1	1.7	14.3	4.3	6.2
NW	1.1	3.1	.9	.8	.0	.0		5.9	9.5	3.9	.0	9.0	4.4	5.2	.0	8.7	7.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	3.4	.0	.0	4.2	1.7	.0	2.2	1.8
TOT OBS	65	222	139	31	1	0	458		10.0	58	3	39	118	58	7	46	129
TOT PCT	14.2	48.5	30.3	6.8	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.7	1.0	.2	.0	.0		3.9	6.1	4.5	2.1	2.3	6.0
NE	4.3	4.0	2.0	.0	.0		10.3	9.8	10.2	9.4	12.7	10.3
E	7.1	11.0	2.0	.2	.0		20.3	9.5	24.2	15.4	18.8	23.9
SE	8.5	14.1	7.8	.9	.0		31.2	12.1	34.8	35.2	23.5	29.3
S	5.7	6.5	1.1	.0	.0		13.4	8.5	6.1	15.0	27.3	9.3
SW	2.1	3.9	.9	.2	.0		7.2	10.0	10.2	7.2	8.2	6.4
W	1.6	2.3	1.4	.0	.0		5.4	11.1	2.9	7.0	3.1	5.7
NW	2.6	2.3	1.0	.0	.0		5.9	9.5	3.7	5.6	4.6	7.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	3.3	3.2	1.5	1.7
TOT OBS	170	207	75	6	0	458		10.0	81	157	65	175
TOT PCT	37.1	45.2	16.4	1.3	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.3	3.3	41.0	37.7	13.1	1.6	.0	13.2	100.0	61
06&09	3.2	10.8	49.7	33.8	2.5	.0	.0	9.3	100.0	157
12&15	1.5	3.1	49.2	36.9	9.2	.0	.0	11.5	100.0	65
18&21	1.7	18.9	49.7	22.3	7.4	.0	.0	8.9	100.0	175
TOT	11	54	222	139	31	1	0	10.0		458
PCT	2.4	11.8	48.5	30.3	6.8	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.0	1.1	.4		4.1
NE	2.0	1.3	2.4	2.4		5.1
E	3.1	3.9	8.6	6.2		5.4
SE	4.8	6.2	12.9	6.8		5.3
S	5.1	7.3	2.8	2.0		3.7
SW	2.8	1.0	3.8	.6		3.9
W	.0	.4	2.0	.6		6.4
NW	2.8	1.4	.7	.6		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.6	.6		4.5
TOT OBS	41	40	62	35	178	4.7
TOT PCT	23.0	22.5	34.8	19.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.6	.6	.4	.0	.0	.0	.0	2.4	
NE	.0	.0	.0	1.1	1.7	.1	.0	.6	.0	.0	4.5	
E	.6	.0	.4	4.4	4.2	.6	.0	.0	.0	.0	11.7	
SE	.0	.0	1.3	1.8	6.2	3.5	.0	.0	.0	.0	17.6	
S	.0	.0	.0	1.1	.8	.8	.0	.0	.6	.0	13.8	
SW	.0	.6	.6	1.1	.1	.7	.0	.0	.0	.0	5.1	
W	.0	.0	.0	1.5	.4	.0	.0	.0	.0	.0	1.0	
NW	.0	.0	.0	.1	.6	.0	.6	.0	.0	.0	4.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	1.7	
TOT OBS	1	1	4	22	26	11	1	1	1	0	110	178
TOT PCT	.6	.6	2.2	12.4	14.6	6.2	.6	.6	.6	.0	61.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5DYD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >2000	5.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7
* OR >1000	17.1	21.5	22.7	22.7	22.7	22.7	22.7	22.7
* OR >600	26.0	34.8	35.9	35.9	35.9	35.9	35.9	35.9
* OR >300	27.6	37.0	38.1	38.1	38.1	38.1	38.1	38.1
* OR >150	28.2	37.6	38.7	38.7	38.7	38.7	38.7	38.7
* OR > 0	28.7	38.1	39.2	39.2	39.2	39.2	39.2	39.2
TOTAL	52	69	71	71	71	71	71	71

TOTAL NUMBER OF OBS: 181 PCT FREQ NH <5/8: 60.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.1	14.4	17.0	14.4	10.3	9.3	5.7	11.3	14.4	.0	194

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.6	.1	.0	.0	.0	.0	.0	.0	.7	
	PCP	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.5	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.5	
	PCP	.0	.5	.2	.3	.0	.0	.0	.0	.0	.0	1.0	
2<5	NO PCP	.2	.3	1.1	2.1	.9	.2	.2	.5	.0	.0	5.5	
	TOT %	.2	.8	1.3	2.4	.9	.2	.2	.5	.0	.0	6.5	
	PCP	.4	.7	.6	1.0	.2	.2	.2	.5	.0	.0	3.8	
5<10	NO PCP	.5	1.9	3.9	6.2	1.8	1.0	1.4	1.6	.0	1.0	19.4	
	TOT %	.9	2.6	4.5	7.2	2.0	1.3	1.7	2.1	.0	1.0	23.2	
	PCP	.2	.1	.2	.6	.2	.0	.0	.2	.0	.2	1.7	
10+	NO PCP	3.1	7.2	14.6	20.3	9.6	5.0	3.8	2.6	.0	1.2	67.5	
	TOT %	3.2	7.2	14.8	20.9	9.8	5.0	3.8	2.9	.0	1.4	69.1	
	TOT OBS												418
	TOT PCT	4.3	10.6	21.4	30.9	12.7	6.5	5.7	5.9	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	4-10	.0	.0	.3	.1	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.6	.1	.0	.0	.0	.0	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1<2	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.2	.2	.0	.0	.0	.0	.2	.9	
	0-3	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.7	
2<5	4-10	.2	.3	1.0	.9	.9	.2	.2	.5	.0		4.2	
	11-21	.0	.2	.0	.9	.5	.0	.2	.0	.0		1.9	
	22+	.0	.2	.2	.1	.0	.0	.0	.0	.0		.5	
	TOT %	.2	1.0	1.2	2.3	1.3	.2	.4	.5	.0	.0	7.2	
	0-3	.2	.5	.0	1.2	.2	.1	.4	.5	.0	.9	3.9	
5<10	4-10	.5	1.2	3.2	2.3	1.1	.6	.9	.7	.0		10.4	
	11-21	.2	.9	.9	2.4	.6	.6	.2	.8	.0		6.5	
	22+	.0	.0	.5	1.2	.0	.0	.1	.1	.0		1.9	
	TOT %	.9	2.5	4.5	7.1	2.0	1.2	1.6	2.0	.0	.9	22.7	
	0-3	.9	1.0	1.3	2.1	1.3	.3	.5	.7	.0	1.4	9.5	
10+	4-10	2.1	3.3	8.0	7.5	5.7	3.1	1.7	1.9	.0		33.1	
	11-21	.2	2.4	4.6	9.0	3.0	1.7	.9	.2	.0		22.0	
	22+	.0	.2	.4	2.4	.0	.2	.7	.0	.0		3.9	
	TOT %	3.1	7.0	14.3	20.9	10.0	5.3	3.7	2.8	.0	1.4	68.5	
	TOT OBS												432
	TOT PCT	4.2	10.5	20.8	30.7	13.5	6.8	5.7	5.3	.0	2.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	1.7	3.4	15.5	15.5	8.6	.0	.0	.0	.0	44.8	55.2	58
06&09	.0	.0	5.3	10.5	10.5	7.9	.0	.0	.0	.0	34.2	65.8	38
12&15	.0	.0	.0	15.7	13.7	.0	2.0	2.0	2.0	.0	35.3	64.7	51
18&21	2.4	.0	.0	9.8	19.5	7.3	.0	.0	.0	.0	39.0	61.0	41
TOT	1	1	4	25	28	11	1	1	1	0	73	115	188
PCT	.5	.5	2.1	13.3	14.9	5.9	.5	.5	.5	.0	38.8	61.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	1.6	1.6	8.2	88.5	61
06&09	.0	1.3	.7	16.4	30.3	51.3	152
12&15	.0	.0	3.2	1.6	17.7	77.4	62
18&21	.0	.0	.0	2.4	23.4	73.7	167
TOT	0	3	4	31	101	303	442
PCT	.0	.7	.9	7.0	22.9	68.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	5.4	23.2	23.2	53.6	56
06&09	.0	5.6	16.7	16.7	66.7	36
12&15	.0	.0	15.7	19.6	64.7	51
18&21	2.6	2.6	13.2	26.3	60.5	38
TOT	1	6	32	39	110	181
PCT	.6	3.3	17.7	21.5	60.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.3	.0	.0	.0	.0	.0	1	.3
80/84	.0	.0	.0	.0	1.0	1.0	.5	.0	10	2.6
75/79	.0	.0	.0	.5	3.9	10.8	7.1	3.4	98	25.7
70/74	.0	.0	.0	.8	9.7	15.7	19.9	11.0	218	57.2
65/69	.0	.0	.0	.0	1.8	2.6	6.0	3.4	53	13.9
60/64	.0	.0	.0	.0	.0	.0	.0	.3	1	.3
TOTAL	0	0	1	5	63	115	128	69	381	100.0
PCT	.0	.0	.3	1.3	16.5	30.2	33.6	18.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
.2	.0	.5	.8	.0	.3	.0	.3	.0	.5
1.8	3.0	3.7	6.7	3.1	2.6	1.2	2.2	.0	1.3
1.5	5.6	13.0	21.3	7.3	2.5	2.5	2.7	.0	.8
.7	2.4	3.0	2.9	1.7	1.8	1.1	.4	.0	.0
.0	.0	.2	.1	.0	.0	.0	.0	.0	.0
4.2	11.2	20.4	31.8	12.2	7.2	4.8	5.6	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	85	80	75	70	68	68	75.3	64
06&09	90	84	79	72	68	65	63	72.7	159
12&15	78	77	77	73	70	67	67	73.0	65
18&21	82	79	77	72	67	65	65	72.2	174
TOT	90	82	78	73	68	65	63	72.9	462

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.2	19.0	43.1	25.9	6.9	76	58
06&09	.0	1.4	18.8	30.4	29.7	19.6	79	138
12&15	.0	.0	25.9	27.8	33.3	13.0	78	54
18&21	.0	.7	9.3	26.4	40.0	23.6	82	140
TOT	0	6	64	119	130	71	80	390

JUNE

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1890-1977

AREA 0011 NEW CALEDONIA
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.4	.4	2	.0	.8
7/8	.0	.0	.0	.0	.4	.0	.0	1	.0	.4
5	.0	.0	.4	.8	.8	.0	.0	5	.4	1.5
4	.0	.0	.0	2.3	.0	.4	.0	7	.0	2.6
3	.0	.0	.4	.8	.0	.0	.0	3	.0	1.1
2	.0	1.1	2.3	3.8	.0	.0	.0	19	.0	7.1
1	.0	.0	3.4	2.6	.0	.0	.0	16	.0	6.0
0	.0	1.9	7.9	2.6	.4	.0	.0	34	.0	12.8
-1	.0	2.6	7.9	.8	.0	.0	.0	30	.0	11.3
-2	.0	7.9	9.8	1.1	.0	.0	.0	50	.0	18.8
-3	.0	3.8	4.5	.4	.0	.0	.0	23	.0	8.6
-4	.8	6.0	5.6	.0	.0	.0	.0	33	.0	12.4
-5	.8	3.8	3.4	.0	.0	.0	.0	21	.0	7.9
-6	.4	3.0	.4	.0	.0	.0	.0	10	.0	3.8
-7/-8	1.1	1.9	.4	.0	.0	.0	.0	9	.0	3.4
-9/-10	.8	.0	.0	.0	.0	.0	.0	2	.0	.8
-11/-13	.4	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	11		123		4		1		1	265
		85		40		2		266		
PCT	4.1	32.0	46.2	15.0	1.5	.8	.4	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	2.2	.4	.0	.0	.0	2.6
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	.4	.0	.0	.0	3.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.9	.7	.0	.0	.0	2.6
3-4	.0	1.3	1.9	.0	.0	.0	3.2
5-6	.0	.0	1.2	.6	.0	.0	1.7
7	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	4.9	1.2	.0	.0	9.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.0	.0	.0	.0	1.7
1-2	.0	4.4	.6	.0	.0	.0	4.9
3-4	.0	3.8	6.8	.0	.0	.0	10.6
5-6	.0	.6	.4	.0	.0	.0	1.0
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.6	1.0	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.6	.0	.0	.0	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	10.5	9.4	1.0	.0	.0	21.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	3.2	1.5	.0	.0	.0	4.7
3-4	.0	3.8	4.9	.6	.0	.0	9.3
5-6	.0	1.2	6.1	2.3	.0	.0	9.6
7	.0	.0	2.9	1.2	.8	.0	4.2
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.2	15.6	4.2	.8	.0	30.5

PERIOD: (OVER-ALL) 1963-1977

JUNE

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.0	.0	.0	.0	.0	3.2
1-2	.6	3.6	1.5	.0	.0	.0	5.7
3-4	.0	.4	2.5	.0	.0	.0	2.9
5-6	.6	1.6	1.6	.0	.0	.0	3.8
7	.0	.6	.0	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	8.3	5.5	.0	.0	.0	16.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	1.2	.0	.0	.0	3.9
3-4	.0	.6	1.5	.0	.0	.0	2.0
5-6	.0	.1	.6	.6	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	3.8	.6	.0	.0	7.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.6	.6	.0	.0	.0	1.2
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.6	.4	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	1.5	.0	.0	.0	3.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.2	.7	.0	.0	.0	.0	1.9	
1-2	.0	1.7	1.2	.0	.0	.0	2.9	
3-4	.0	.7	.0	.0	.0	.0	.7	
5-6	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	3.2	1.3	.0	.0	.0	5.7	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.8	6.8	.0	.0	.0	.0	13.6	
1-2	1.1	19.9	7.4	.0	.0	.0	28.4	
3-4	.0	10.8	17.6	.6	.0	.0	29.0	
5-6	.6	4.0	10.2	3.4	.0	.0	18.2	
7	.0	.6	4.5	1.1	.6	.0	6.8	
8-9	.0	.0	1.1	1.1	.0	.0	2.3	
10-11	.0	.0	.6	.6	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.6	.0	.0	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.5	42.6	41.5	6.8	.6	.0	100.0	176

PERIOD: (OVER-ALL) 1954-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.2	7.4	9.5	5.8	7.4	.5	.5	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	4
6-7	.0	1.6	6.9	7.9	6.9	2.6	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	6
8-9	.0	.5	4.2	5.3	4.2	1.6	1.6	.5	1.1	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	37	7
10-11	.0	.0	1.6	2.1	1.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
12-13	.0	.0	.0	1.6	1.6	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	2.6	.5	.0	.5	1.1	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
TOTAL	11	19	42	44	42	9	11	4	4	2	0	0	0	1	0	0	0	0	0	189	5
PCT	5.8	10.1	22.2	23.3	22.2	4.8	5.8	2.1	2.1	1.1	.0	.0	.0	.5	.0	.0	.0	.0	.0	100.0	

JULY

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.3	.0	7.3	.0	.0	.0	.0	14.7	.0	.0	.0	.0	6.4		.0	78.9
NE	.7	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.7		.0	98.0
E	3.7	.0	3.9	.0	.0	.0	.0	7.6	2.4	.0	.0	.0	.0		.0	90.0
SE	3.5	.0	1.3	.0	.0	.0	.0	4.8	1.0	.7	.0	.0	.0		.0	93.6
S	5.0	1.8	.0	.0	.0	.0	.0	6.8	2.7	.0	.0	.0	.0		.0	90.5
SW	.0	4.0	.0	.0	.0	.0	.0	4.0	.8	.0	.0	.0	.8		.0	94.4
W	.0	2.7	6.2	.0	.0	.0	.0	8.8	.0	.0	.0	.0	2.7		.0	88.5
NW	4.8	.0	1.2	.0	.0	.0	.0	6.0	.0	.0	.0	.0	.0		.0	94.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	3.2	.0	2.2	.0	.0	.0	.0	6.0	1.3	.2	.0	.0	.6		.0	91.8
TOT OBS:	463															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.2	.0	1.1	.0	.0	.0	.0	3.3	3.3	.0	1.1	.0	1.1		.0	91.2
06&09	2.7	2.0	2.0	.0	.0	.0	.0	6.7	1.3	.7	.0	.0	.7		.0	90.6
12&15	4.8	.0	.0	.0	.0	.0	.0	4.8	3.2	.0	.0	.0	.0		.0	91.9
18&21	3.9	.0	3.4	.0	.0	.0	.0	7.3	.6	.0	.0	.0	1.1		.0	91.0
TOT PCT	3.3	.0	2.1	.0	.0	.0	.0	6.0	1.7	.2	.2	.0	.8		.0	91.0
TOT OBS:	480															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	2.7	1.2	.0	.0	.0		5.7	6.5	4.5	.0	1.2	5.8	3.4	.0	3.8	10.1
NE	1.9	4.9	.7	.2	.0	.0		7.7	6.4	5.3	.0	.0	8.6	4.7	.0	5.2	14.3
E	2.0	11.4	7.5	1.0	.3	.3		22.5	11.2	15.7	.0	15.2	24.8	21.6	45.0	24.5	26.6
SE	2.9	13.8	12.8	2.1	.5	.3		32.4	12.0	45.8	.0	39.8	32.3	37.9	45.0	32.1	18.1
S	1.0	6.4	4.0	.5	.3	.1		12.3	11.3	12.9	.0	20.5	10.5	16.8	10.0	12.7	8.2
SW	.9	4.6	1.3	.1	.0	.0		6.9	8.0	7.3	.0	11.5	7.5	3.9	.0	9.0	4.7
W	.9	3.6	1.5	.2	.0	.0		6.2	8.8	7.3	.0	9.8	6.8	4.7	.0	5.2	4.7
NW	2.0	2.1	.1	.0	.0	.0		4.3	4.5	.0	.0	.4	2.8	3.4	.0	1.9	11.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.1	.0	1.6	.8	3.4	.0	5.7	1.4
TOT OBS	82	266	157	22	6	4	537		10.0	89	0	61	133	58	5	53	138
TOT PCT	15.3	49.5	29.2	4.1	1.1	.7		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.0	1.3	.4	.0	.0		5.7	6.5	4.5	4.4	3.2	8.4
NE	5.0	2.3	.4	.0	.0		7.7	6.4	5.3	5.9	4.4	11.8
E	8.1	9.9	3.9	.1	.5		22.5	11.2	15.7	21.8	23.4	26.0
SE	9.1	15.2	7.2	.5	.5		32.4	12.0	45.8	34.7	38.5	22.0
S	4.5	5.6	1.7	.3	.3		12.3	11.3	12.9	13.7	16.3	9.4
SW	2.8	4.0	.1	.0	.0		6.9	8.0	7.3	8.8	3.6	5.9
W	2.7	2.6	.9	.0	.0		6.2	8.8	7.3	7.7	4.4	4.8
NW	3.6	.7	.1	.0	.0		4.3	4.5	.0	2.1	3.2	9.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	1.1	1.0	3.2	2.6
TOT OBS	223	223	79	5	7	537		10.0	89	194	63	191
TOT PCT	41.5	41.5	14.7	.9	1.3		100.0		100.0	100.0	100.0	100.0

JULY

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	7.9	34.8	44.9	6.7	4.5	.0	13.3	100.0	89
06&09	1.0	12.9	54.6	27.3	3.6	.5	.0	9.3	100.0	194
12&15	3.2	1.6	42.9	42.9	4.8	1.6	3.2	13.0	100.0	63
18&21	2.6	20.4	53.4	19.4	3.1	.0	1.0	8.1	100.0	191
TOT	10	72	266	157	22	6	4	10.0		537
PCT	1.9	13.4	49.5	29.2	4.1	1.1	.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.8	.9	.0		3.2
NE	1.8	.0	.1	1.6		4.4
E	5.9	3.5	6.3	3.4		4.5
SE	16.3	9.6	12.3	2.9		3.8
S	5.4	5.5	2.3	2.7		3.7
SW	2.7	2.4	2.6	.2		3.7
W	2.1	2.0	1.2	.0		3.2
NW	.1	.5	.5	.0		5.0
VAR	.0	.0	.0	.0		.0
CALM	.9	.9	.0	.5		3.0
TOT OBS	81	58	58	25	222	3.9
TOT PCT	36.5	26.1	26.1	11.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	
NE	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	1.9	
E	.0	.0	.9	2.9	2.6	1.2	.0	.0	.0	.0	11.4	
SE	.5	.1	.0	4.1	3.9	2.4	.5	.0	.0	.5	29.3	
S	.0	.3	.0	1.5	1.6	.8	.0	.0	.0	.0	11.7	
SW	.0	.0	.0	.1	.7	1.0	.0	.0	.0	.0	6.1	
W	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	4.5	
NW	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.8	
TOT OBS	1	2	3	22	23	13	1	0	0	1	156	222
TOT PCT	.5	.9	1.4	9.9	10.4	5.9	.5	.0	.0	.5	70.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
* OR >3500	.9	.9	.9	.9	.9	.9	.9	.9
* OR >2000	5.2	5.6	6.5	6.5	6.5	6.5	6.5	6.5
* OR >1000	12.1	15.9	16.8	16.8	16.8	16.8	16.8	16.8
* OR >600	17.7	25.4	27.6	27.6	27.6	28.0	28.0	28.0
* OR >300	18.5	26.7	28.9	28.9	28.9	29.3	29.3	29.3
* OR >150	19.0	27.2	29.3	29.7	29.7	30.2	30.2	30.2
* OR > 0	19.0	27.6	29.7	30.2	30.2	30.6	30.6	30.6
TOTAL	44	64	69	70	70	71	71	71

TOTAL NUMBER OF OBS: 232 PCT FREQ NH <5/8: 69.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.2	17.2	21.2	15.2	8.8	6.8	5.6	8.0	9.6	.4	250

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.4	
<1/2	NO PCP	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.4	
	TOT %	.2	.0	.2	.2	.0	.0	.0	.2	.0	.0	.9	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.2	.0	.2	.0	.0	.1	.2	.0	.0	.0	.6	
1<2	NO PCP	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.2	.1	.2	.1	.2	.0	.0	.0	.9	
	PCP	.2	.0	.4	.2	.2	.0	.0	.0	.0	.0	1.1	
2<5	NO PCP	.4	.0	1.8	1.2	.4	.1	.3	.1	.0	.0	4.3	
	TOT %	.6	.0	2.2	1.5	.6	.1	.3	.1	.0	.0	5.4	
	PCP	.0	.0	.4	.6	.2	.2	.0	.0	.0	.0	1.5	
5<10	NO PCP	1.1	1.2	4.8	6.8	1.9	.9	.2	.0	.0	.2	17.1	
	TOT %	1.1	1.2	5.2	7.5	2.1	1.1	.2	.0	.0	.2	18.6	
	PCP	.2	.1	.6	.5	.4	.0	.4	.3	.0	.0	2.4	
10+	NO PCP	3.6	6.9	13.7	23.0	8.6	5.5	5.0	3.9	.0	1.7	71.9	
	TOT %	3.8	7.0	14.3	23.5	9.0	5.5	5.4	4.2	.0	1.7	74.3	
	TOT OBS												463
	TOT PCT	5.9	8.2	22.1	32.7	11.9	6.7	6.1	4.5	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.2	.0	.2	.2	.0	.0	.0	.2	.0	.0	.8	
<1/2	4-10	.1	*	.3	1.0	.5	*	.0	.0	.0		2.2	
	11-21	.0	.0	.2	.2	.1	.2	.0	.0	.0		.8	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.3	*	.9	1.5	.7	.2	.0	.2	.0	.0	3.9	
	0-3	.0	.0	.1	*	.0	.2	.0	.0	.0	.0	.4	
1/2<1	4-10	.2	.0	.0	.4	.2	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.1	.6	.2	.2	.0	.0	.0	.0	1.4	
	0-3	.1	*	.0	.0	.0	.0	.2	.0	.0	.2	.6	
1<2	4-10	.2	*	.7	.5	.1	*	.1	.0	.0		1.8	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.1	.9	.5	.1	*	.3	.0	.0	.2	2.6	
	0-3	.0	.0	.6	.2	.2	.0	.0	.0	.0	.0	1.0	
2<5	4-10	.5	.0	.6	.6	.2	*	.1	*	.0		2.2	
	11-21	.0	.0	.8	.3	.2	*	.1	.0	.0		1.6	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.5	.0	2.0	1.3	.6	.1	.3	*	.0	.0	4.9	
	0-3	.4	.6	.6	1.2	.2	.0	.0	.0	.0	.2	3.2	
5<10	4-10	.4	.4	1.4	1.8	.3	.8	.0	.0	.0		5.1	
	11-21	.2	.1	1.5	2.4	1.0	.1	.0	.0	.0		5.3	
	22+	.0	.0	1.2	1.5	.4	.1	.2	.0	.0		3.4	
	TOT %	1.0	1.1	4.7	6.8	1.9	1.0	.2	.0	.0	.2	17.0	
	0-3	1.2	1.4	.5	1.4	.6	.7	.8	2.0	.0	1.6	10.3	
10+	4-10	1.4	4.3	8.3	9.9	5.0	3.5	3.2	2.0	.0		37.5	
	11-21	.9	.5	4.4	9.5	2.4	1.0	1.1	.1	.0		19.9	
	22+	.0	.2	.3	1.4	.6	.0	.0	.0	.0		2.6	
	TOT %	3.5	6.4	13.6	22.1	8.7	5.2	5.1	4.1	.0	1.6	70.2	
	TOT OBS												507
	TOT PCT	5.9	7.6	22.3	32.9	12.2	6.8	5.9	4.3	.0	2.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	1.1	3.4	16.1	9.2	9.2	.0	.0	.0	.0	39.1	60.9	87
06&09	.0	1.8	.0	12.5	8.9	3.6	1.8	.0	.0	.0	28.6	71.4	56
12&15	1.8	.0	.0	7.1	8.9	1.8	.0	.0	.0	.0	19.6	80.4	56
18&21	.0	.0	.0	2.2	13.0	4.3	.0	.0	.0	2.2	21.7	78.3	46
TOT	1	2	3	26	24	13	1	0	0	1	71	174	245
PCT	.4	.8	1.2	10.6	9.8	5.3	.4	.0	.0	.4	29.0	71.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	4.4	19.8	75.8	91
06&09	11.2	3.7	6.4	6.4	16.5	55.9	188
12&15	.0	.0	.0	1.6	24.2	74.2	62
18&21	.5	.0	.5	5.9	16.2	76.8	185
TOT	22	7	13	28	94	362	526
PCT	4.2	1.3	2.5	5.3	17.9	68.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	4.6	24.1	16.1	59.8	87
06&09	.0	3.7	14.8	14.8	70.4	54
12&15	2.1	2.1	10.6	12.8	76.6	47
18&21	.0	.0	2.3	20.5	77.3	44
TOT	1	7	35	37	160	232
PCT	.4	3.0	15.1	15.9	69.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
80/84	.0	.0	.0	.0	.4	.2	.4	.0	5	1.1
75/79	.0	.0	.4	.9	1.7	4.9	1.3	.6	46	9.9
70/74	.0	.2	.0	3.2	11.8	20.9	14.6	5.8	263	56.6
65/69	.0	.0	.0	1.9	7.1	8.2	7.1	6.0	141	30.3
60/64	.0	.0	.0	.0	.2	.2	.4	1.1	9	1.9
TOTAL	0	1	2	29	99	160	111	63	465	100.0
PCT	.0	.2	.4	6.2	21.3	34.4	23.9	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
.2	.0	.2	.5	.0	.0	.2	.1	.0	.0
.6	.9	2.2	3.4	.9	.6	1.0	.3	.0	.0
1.9	3.9	12.6	18.6	7.6	4.6	3.9	1.5	.0	1.9
3.0	2.5	7.4	8.7	3.6	1.2	1.3	2.4	.0	.2
.2	.1	.9	.2	.2	.2	.0	.2	.0	.0
5.9	7.6	23.3	31.4	12.3	6.6	6.4	4.5	.0	2.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	78	78	73	68	59	59	72.6	95
06&09	86	80	77	71	66	65	60	71.1	195
12&15	75	74	74	70	68	63	63	70.5	65
18&21	80	78	75	70	65	62	62	69.8	194
TOT	86	79	76	71	66	63	59	70.8	549

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.2	25.9	43.2	19.8	4.9	74	81
06&09	.0	8.7	25.4	30.6	22.0	13.3	75	173
12&15	.0	3.5	22.8	38.6	29.8	5.3	75	57
18&21	.0	6.5	14.7	32.4	26.5	20.0	78	170
TOT	0	33	103	163	116	64	76	481

JULY

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1892-1977

AREA 0011 NEW CALEDONIA
21.7S 165.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.8	2	.0	.8
11/13	.0	.0	.0	.0	.4	.0	1	.0	.4
6	.0	.0	.0	.0	.8	.4	3	.0	1.2
5	.0	.0	.0	.8	1.2	.0	5	.0	2.0
4	.0	.0	.4	.8	1.2	.0	6	.0	2.4
3	.0	.0	.0	1.6	.0	.0	4	.0	1.6
2	.0	.0	1.2	2.8	.8	.0	12	.0	4.8
1	.0	.0	.4	4.4	.4	.0	13	.0	5.2
0	.0	.4	3.2	3.6	.8	.0	20	.0	7.9
-1	.0	.0	3.2	3.2	.4	.0	17	.4	6.3
-2	.0	.4	9.5	6.0	.0	.0	40	.0	15.9
-3	.0	.8	11.1	4.4	.0	.0	41	.0	16.3
-4	.0	2.0	7.1	2.8	.0	.0	30	.0	11.9
-5	.0	2.0	6.7	.8	.0	.0	24	.0	9.5
-6	.0	.4	2.4	.4	.0	.0	8	.0	3.2
-7/-8	.4	3.2	3.6	.0	.0	.0	18	.0	7.1
-9/-10	.0	1.6	.8	.0	.0	.0	6	.0	2.4
-11/-13	.8	.0	.0	.0	.0	.0	2	.0	.8
TOTAL	3	27	126	79	14	3	252	1	251
PCT	1.2	10.7	49.6	31.3	6.0	1.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.5	.0	.0	.0	1.0
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	1.0	.0	.0	.0	1.0
5-6	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	2.3	.0	.0	.0	3.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	1.1	.1	.0	.0	.0	1.2
5-6	.0	.5	.1	.5	.0	.0	1.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	.4	.5	.0	.0	3.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.4	.0	.0	.0	.0	.8
1-2	.0	2.6	.7	.0	.0	.0	3.3
3-4	.0	2.6	3.2	.7	.0	.0	6.5
5-6	.0	.0	3.5	.0	.8	.0	4.3
7	.0	.0	1.3	.5	.0	.8	2.6
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.4	.5	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.6	9.0	2.1	.8	.8	18.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.0	.0	.0	.0	1.1
1-2	.0	6.1	6.0	.0	.0	.0	12.0
3-4	.0	5.0	11.3	.8	.0	.0	17.1
5-6	.0	1.0	4.2	1.0	.7	.0	6.8
7	.0	.0	.5	.5	.0	.7	1.7
8-9	.0	.0	1.1	.5	.0	.0	1.5
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.5	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	12.6	23.1	3.2	1.2	.7	41.3

PERIOD: (OVER-ALL) 1963-1977

JULY

AREA 0011 NEW CALEDONIA 21.7S 165.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4
1-2	.0	4.3	2.4	.0	.0	.0	6.7
3-4	.0	2.0	4.0	.4	.0	.0	6.4
5-6	.0	.5	.7	.0	.8	.0	2.0
7	.0	.0	.0	.0	.0	.4	.4
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.8	7.5	.4	.8	.4	16.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.5	2.0	.0	.0	.0	.0	2.5
3-4	.0	1.3	.4	.0	.0	.0	1.7
5-6	.0	.5	1.5	.0	.0	.0	2.0
7	.0	.5	.0	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.3	1.9	.0	.0	.0	6.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.5	2.0	.5	.0	.0	.0	3.0
3-4	.0	.4	.5	.0	.0	.0	.8
5-6	1.0	.0	.5	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	3.3	1.4	.0	.0	.0	6.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.5	.0	.0	.0	.0	1.0	
1-2	.0	.5	.0	.0	.0	.0	.5	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	1.0	.1	.0	.0	.0	1.5	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	2.8	.5	.0	.0	.0	8.1	
1-2	.9	19.0	9.5	.0	.0	.0	29.4	
3-4	.0	12.3	20.4	1.9	.0	.0	34.6	
5-6	.9	2.4	11.4	1.4	2.4	.0	18.5	
7	.0	.5	1.9	.9	.0	1.9	5.2	
8-9	.0	.0	1.4	.9	.0	.0	2.4	
10-11	.0	.0	.5	.5	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.5	.5	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	37.0	45.5	6.2	2.8	1.9	100.0	211

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	6.1	13.5	6.1	2.2	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	4
6-7	.0	.4	9.1	7.0	8.3	6.1	1.3	.0	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	6
8-9	.0	.0	1.7	3.5	5.2	5.7	2.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	7
10-11	.0	.0	1.7	1.3	.9	.9	1.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	7
12-13	.0	.0	.9	1.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
>13	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	2.2	.4	.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	2
TOTAL	8	16	63	48	38	39	12	1	4	1	0	0	0	0	0	0	0	0	0	230	5
PCT	3.5	7.0	27.4	20.9	16.5	17.0	5.2	.4	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1890-1977

AREA 0011 NEW CALEDONIA
21.7S 165.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
N	5.9	5.9	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0		.0		88.2
NE	2.3	.0	6.1	.0	.0	.0	.0	8.4	3.7	.0	.0	.0	.0		.0		87.9
E	2.7	4.2	1.9	.0	.0	.0	.0	6.8	1.1	.0	.0	.0	.0		.0		92.1
SE	3.3	.9	.2	.0	.0	.0	.0	4.5	1.2	.0	.9	.0	.0		.0		93.4
S	4.1	1.5	1.1	.0	.0	.0	.0	6.8	2.6	.0	.0	.0	.0		1.5		89.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		100.0
W	6.2	.0	.0	.0	.0	.0	.0	6.2	.0	.0	.0	.0	.0		.0		93.8
NW	7.1	.0	7.1	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0		.0		85.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		.0
CALM	3.3	.0	10.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0		.0		86.7
TOT PCT	3.4	1.1	2.3	.0	.0	.0	.0	6.8	1.4	.0	.2	.0	.0		.2		91.3
TOT OBS:	439																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
00&03	8.6	1.7	.0	.0	.0	.0	.0	10.3	1.7	.0	.0	.0	.0		.0		87.9
06&09	3.9	.6	2.6	.0	.0	.0	.0	7.1	.6	.0	.6	.0	.0		.0		91.6
12&15	.0	1.8	.0	.0	.0	.0	.0	1.8	5.3	.0	.0	.0	.0		.0		93.0
18&21	2.7	1.1	3.2	.0	.0	.0	.0	7.0	.5	.0	.0	.0	.0		.5		91.9
TOT PCT	3.5	1.1	2.2	.0	.0	.0	.0	6.8	1.3	.0	.2	.0	.0		.2		91.4
TOT OBS:	455																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	1.7	.4	.0	.0	.0		3.6	5.3	2.4	.0	.0	3.3	1.4	6.3	.0	7.0
NE	3.9	5.9	1.5	.2	.0	.0		11.5	6.5	8.3	.0	4.8	7.5	14.5	6.3	18.8	16.9
E	3.3	10.2	6.1	.7	.0	.0		20.3	9.0	24.2	.0	10.7	21.9	22.3	31.3	24.3	18.2
SE	3.5	12.2	9.5	.6	.0	.0		25.8	9.9	27.8	54.2	43.5	29.9	23.6	18.8	27.1	15.8
S	2.0	8.5	5.4	.1	.0	.0		16.0	8.9	15.9	25.0	32.7	13.2	19.1	25.0	20.1	11.8
SW	1.0	4.7	1.4	.0	.0	.0		7.1	7.4	10.3	20.8	3.6	9.3	8.2	.0	1.4	5.1
W	1.6	2.5	1.7	.4	.5	.0		6.7	10.9	7.1	.0	2.4	8.1	5.0	.0	2.8	8.3
NW	.9	1.6	.4	.0	.2	.0		3.2	8.9	2.4	.0	2.4	2.1	2.3	.0	.0	6.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.8							5.8	.0	1.6	.0	.0	4.7	3.6	12.5	5.6	10.8
TOT OBS	126	254	141	11	4	0	536		8.3	63	6	42	169	55	8	36	157
TOT PCT	23.5	47.4	26.3	2.1	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	1.0	.0	.0	.0		3.6	5.3	2.2	2.6	2.0	5.7
NE	6.9	4.3	.1	.2	.0		11.5	6.5	7.6	7.0	13.5	17.2
E	8.7	9.0	2.4	.2	.0		20.3	9.0	22.1	19.7	23.4	19.3
SE	8.6	12.5	4.7	.0	.0		25.8	9.9	30.1	32.6	23.0	17.9
S	7.0	7.4	1.6	.0	.0		16.0	8.9	16.7	17.1	19.8	13.3
SW	3.8	2.8	.4	.0	.0		7.1	7.4	11.2	8.2	7.1	4.4
W	3.2	2.5	.3	.7	.0		6.7	10.9	6.5	7.0	4.4	7.3
NW	1.7	1.3	.0	*	.2		3.2	8.9	2.2	2.1	2.0	5.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.8						5.8	.0	1.4	3.8	4.8	9.8
TOT OBS	259	219	51	6	1	536		8.3	69	211	63	193
TOT PCT	48.3	40.9	9.5	1.1	.2		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	5.8	52.2	33.3	4.3	2.9	.0	10.9	100.0	69
06&09	3.8	19.4	48.8	27.0	.9	.0	.0	8.0	100.0	211
12&15	4.8	1.6	44.4	39.7	6.3	3.2	.0	11.3	100.0	63
18&21	4.8	25.4	45.1	18.7	1.0	.0	.0	6.6	100.0	193
TOT	31	95	254	141	11	4	0	8.3		536
PCT	5.8	17.7	47.4	26.3	2.1	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.0	.0	.4		4.0
NE	4.7	1.1	2.4	2.0		3.9
E	10.5	4.5	3.7	3.7		3.6
SE	8.3	11.2	7.6	3.0		4.0
S	4.5	6.2	6.3	4.3		4.7
SW	2.0	2.9	.6	.4		3.2
W	2.9	.6	.4	.4		2.7
NW	.6	1.1	.1	.0		2.8
VAR	.0	.0	.0	.0		.0
CALM	2.3	.6	.0	.0		1.6
TOT OBS	63	49	37	25	174	3.8
TOT PCT	36.2	28.2	21.3	14.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
NE	.0	.0	.0	.7	1.1	1.7	.0	.1	.0	.0	6.6	
E	.0	.0	1.1	2.6	1.1	1.0	.6	.4	.0	.0	15.5	
SE	.0	.0	.6	1.6	2.6	1.4	.0	.6	.0	.1	23.3	
S	.0	.0	.0	2.6	2.4	1.0	.0	.6	.6	.4	13.6	
SW	.0	.0	.0	.6	.1	.0	.0	.0	.0	.0	5.2	
W	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	3.9	
NW	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	
TOT OBS	0	0	3	14	13	10	1	3	1	1	128	174
TOT PCT	.0	.0	1.7	8.0	7.5	5.7	.6	1.7	.6	.6	73.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	2.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8
* OR >3500	2.8	3.4	3.4	3.4	3.4	3.4	3.4	3.4
* OR >2000	8.5	9.1	9.1	9.1	9.1	9.1	9.1	9.1
* OR >1000	15.9	17.0	17.0	17.0	17.0	17.0	17.0	17.0
* OR >600	20.5	23.9	25.0	25.0	25.0	25.0	25.0	25.0
* OR >300	21.6	25.0	26.1	26.1	26.7	26.7	26.7	26.7
* OR >150	21.6	25.0	26.1	26.1	26.7	26.7	26.7	26.7
* OR > 0	21.6	25.0	26.7	26.7	27.3	27.3	27.3	27.3
TOTAL	38	44	47	47	48	48	48	48

TOTAL NUMBER OF OBS: 176 PCT FREQ NH <5/8: 72.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.0	16.4	21.3	19.7	9.3	4.9	7.1	7.1	8.2	.0	183

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.7	.2	.2	.0	.0	.0	.0	.0	.0	1.1	
1/2<1	PCP	.0	.1	.6	.0	.0	.0	.2	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.6	.0	.0	.0	.2	.0	.0	.0	.9	
1<2	PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.2	.3	.1	.0	.0	.0	.0	.7	
2<5	PCP	.2	.0	.0	.1	.2	.0	.0	.0	.0	.0	.5	
	NO PCP	.2	.5	1.0	1.0	.5	.5	.5	.0	.0	.0	4.1	
	TOT %	.5	.5	1.0	1.1	.6	.5	.5	.0	.0	.0	4.6	
5<10	PCP	.0	.0	.5	.5	.5	.0	.2	.2	.0	.5	2.3	
	NO PCP	.5	1.8	3.4	3.5	3.4	1.9	.7	.1	.0	.9	16.2	
	TOT %	.5	1.8	3.8	4.0	3.9	1.9	.9	.3	.0	1.4	18.5	
10+	PCP	.2	.5	.2	.3	.2	.0	.0	.2	.0	.5	2.1	
	NO PCP	2.7	8.7	15.0	18.2	10.1	4.1	5.8	2.7	.0	5.0	72.2	
	TOT %	2.9	9.1	15.2	18.5	10.3	4.1	5.8	2.9	.0	5.5	74.3	
	TOT OBS												439
	TOT PCT	3.9	12.2	20.8	24.0	15.1	6.6	7.3	3.2	.0	6.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.4	.4	.3	.6	.1	.2	.1	.0	.0	2.0	
	4-10	.0	.3	1.0	1.0	.2	.2	.0	.0	.0		2.6	
	11-21	.0	.3	.4	.4	.0	.0	.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.9	1.7	1.7	.8	.3	.2	.1	.0	.0	5.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.3	1.1	.4	.0	.0	.0	.0		2.0	
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0		.2	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.3	.5	1.1	.4	.0	.2	.0	.0	.0	2.4	
1<2	0-3	.0	.2	.4	.3	.0	.0	.0	.0	.0	.0	.8	
	4-10	.0	.2	.3	.7	.2	.0	.0	.2	.0		1.6	
	11-21	.0	.1	.4	.4	.4	.2	.2	.0	.0		1.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.5	1.0	1.4	.6	.2	.2	.2	.0	.0	4.0	
2<5	0-3	.0	.3	.2	.4	.0	.2	.0	.0	.0	.0	1.0	
	4-10	.2	.2	.6	.5	.8	.2	.2	.0	.0		2.6	
	11-21	.2	.0	.3	.3	.4	.0	.2	.0	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.5	1.1	1.2	1.2	.4	.4	.0	.0	.0	5.0	
5<10	0-3	.0	.4	.8	.4	1.1	.0	.0	.0	.0	1.2	3.8	
	4-10	.5	.9	1.6	1.3	1.3	1.2	.8	.3	.0		7.6	
	11-21	.0	.1	.8	2.1	1.0	.5	.0	.0	.0		4.4	
	22+	.0	.2	.2	.1	.2	.0	.0	.0	.0		.6	
	TOT %	.5	1.6	3.4	3.7	3.4	1.7	.8	.3	.0	1.2	16.5	
10+	0-3	1.3	2.9	1.7	2.2	.6	.6	1.5	.9	.0	4.8	16.5	
	4-10	1.1	4.2	7.0	7.9	4.9	2.6	1.5	1.2	.0		30.4	
	11-21	.2	1.2	4.4	6.0	3.6	.6	1.1	.4	.0		17.5	
	22+	.0	.0	.4	.4	.0	.0	1.0	.3	.0		2.0	
	TOT %	2.6	8.2	13.5	16.4	9.1	3.8	5.1	2.8	.0	4.8	66.4	
	TOT OBS												497
	TOT PCT	3.6	11.9	21.1	25.4	15.4	6.4	6.9	3.3	.0	6.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	1.8	7.1	5.4	1.8	.0	1.8	.0	.0	17.9	82.1	56
06&09	.0	.0	.0	5.1	7.7	12.8	2.6	2.6	.0	.0	30.8	69.2	39
12&15	1.9	.0	1.9	11.5	11.5	5.8	.0	.0	1.9	.0	34.6	65.4	52
18&21	.0	.0	2.9	5.9	5.9	2.9	.0	2.9	.0	2.9	23.5	76.5	34
TOT	1	0	3	14	14	10	1	3	1	1	48	133	181
PCT	.6	.0	1.7	7.7	7.7	5.5	.6	1.7	.6	.6	26.5	73.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.7	.0	1.7	6.9	89.7	58
06&09	12.8	5.4	7.9	5.9	23.2	44.8	203
12&15	.0	.0	1.6	8.1	12.9	77.4	62
18&21	1.1	.0	1.6	4.2	14.7	78.4	190
TOT	28	12	20	26	87	340	513
PCT	5.5	2.3	3.9	5.1	17.0	66.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.9	9.3	9.3	81.5	54
06&09	.0	.0	5.4	27.0	67.6	37
12&15	1.9	3.8	15.4	19.2	65.4	52
18&21	.0	3.0	9.1	15.2	75.8	33
TOT	1	4	18	30	128	176
PCT	.6	2.3	10.2	17.0	72.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
80/84	.0	.0	.2	.2	.4	.0	.0	.0	4	.9
75/79	.0	.0	.2	.2	1.9	3.7	3.2	.9	47	10.1
70/74	.2	.0	.4	3.9	11.6	16.3	12.9	10.1	258	55.5
65/69	.0	.0	.0	3.2	3.7	10.8	8.4	6.2	150	32.3
60/64	.0	.0	.0	.0	.0	.4	.4	.0	4	.9
50/54	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	1	0	4	35	83	145	116	81	465	100.0
PCT	.2	.0	.9	7.5	17.8	31.2	24.9	17.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
.0	.2	.2	.2	.0	.0	.2	.0	.0	.0
.5	1.3	1.8	3.4	.6	.0	.8	.8	.0	.9
1.8	7.7	10.9	14.6	7.7	3.3	4.5	2.0	.0	2.8
1.1	2.6	5.5	7.8	7.0	2.8	2.1	.7	.0	2.6
.2	.0	.2	.2	.0	.0	.0	.0	.0	.2
.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
3.7	11.9	18.9	26.5	15.4	6.2	7.6	3.5	.0	6.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	83	78	73	68	66	66	73.1	56
06&09	81	79	76	70	66	64	50	70.7	213
12&15	76	75	74	70	66	64	64	70.3	63
18&21	89	80	76	70	66	64	64	70.3	203
TOT	89	80	77	70	66	64	50	70.8	545

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	14.3	28.6	30.4	23.2	3.6	71	56
06&09	.0	8.3	17.6	33.7	20.7	19.7	78	193
12&15	2.0	9.8	7.8	37.3	31.4	11.8	75	51
18&21	.0	5.6	17.2	28.9	28.3	20.0	78	180
TOT	1	39	85	153	120	82	77	480

AUGUST

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1890-1977

AREA 0011 NEW CALEDONIA
21.7S 165.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.9	2	.0	.9
11/13	.0	.0	.0	.0	.0	.0	.9	.0	2	.0	.9
9/10	.0	.0	.0	.0	.0	.0	.0	.5	1	.0	.5
7/8	.0	.0	.0	.0	.5	.9	.0	.0	3	.0	1.4
6	.0	.0	.0	.5	.5	.0	.0	.0	2	.0	.9
5	.0	.0	.0	1.4	.5	.0	.0	.0	4	.0	1.8
4	.0	.0	.5	1.4	2.3	.0	.0	.0	9	.0	4.1
3	.0	.0	.0	.0	.9	.0	.0	.0	2	.0	.9
2	.0	.5	.0	2.3	.9	.0	.0	.0	8	.0	3.7
1	.0	.5	1.8	3.7	.5	.0	.0	.0	14	.0	6.4
0	.0	.5	5.5	6.4	.0	.0	.0	.0	27	.0	12.3
-1	.0	.0	8.7	4.6	.0	.0	.0	.0	29	.0	13.2
-2	.0	.9	10.0	4.1	.0	.0	.0	.0	33	.0	15.1
-3	.0	2.7	9.6	1.8	.0	.0	.0	.0	31	.0	14.2
-4	.5	3.7	7.8	.5	.0	.0	.0	.0	27	.0	12.3
-5	.0	1.4	3.2	.9	.0	.0	.0	.0	12	.0	5.5
-6	.0	.9	1.4	.0	.0	.0	.0	.0	5	.0	2.3
-7/-8	.0	.5	1.4	.0	.0	.0	.0	.0	4	.0	1.8
-9/-10	.0	.9	.5	.0	.0	.0	.0	.0	3	.0	1.4
-11/-13	.0	.5	.0	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	1		110		13		2			0	219
		28		60		2		3	219		
PCT	.5	12.8	50.3	27.4	5.9	.9	.9	1.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.5	.0	.0	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.5	.0	.0	.0	.0	.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.4	.0	.0	.0	.0	2.0
1-2	.0	3.9	.6	.0	.0	.0	4.5
3-4	.0	.8	.9	.0	.0	.0	1.7
5-6	.0	.6	.6	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.2	.0	.0	.6	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.6	2.1	.6	.0	.0	10.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.6	7.5	1.2	.0	.0	.0	9.3
3-4	.0	3.0	2.4	.6	.0	.0	6.0
5-6	.0	.5	1.2	.6	.0	.0	2.3
7	.0	.0	1.8	.6	.0	.0	2.4
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	12.5	7.2	1.8	.0	.0	22.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.4	.0	.0	.0	.0	2.0
1-2	.2	4.5	1.2	.0	.0	.0	5.9
3-4	.0	4.7	9.9	.0	.0	.0	14.6
5-6	.0	2.7	3.8	.2	.0	.0	6.6
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	13.3	16.1	.8	.0	.0	30.9

PERIOD: (OVER-ALL) 1963-1977

AUGUST

TABLE 18 (CONT)

AREA 0011 NEW CALEDONIA 21.7S 165.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.5	6.2	.6	.0	.0	.0	7.2
3-4	.0	2.4	5.4	.0	.0	.0	7.8
5-6	.0	1.1	3.9	.5	.0	.0	5.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	10.2	9.9	.5	.0	.0	21.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.0	.0	.0	.0	.0	2.0
3-4	.0	.8	.8	.0	.0	.0	1.5
5-6	.0	1.2	.8	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	1.5	.0	.0	.0	5.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	.6	.0	.5	.0	1.1
7	.0	.0	.0	.6	1.2	.0	1.8
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	1.1	1.2	1.7	.0	4.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.6	.6	.0	.0	.0	1.2	
5-6	.0	.0	.0	.0	.2	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.6	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.6	.6	.0	.8	.0	2.0	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.2	5.4	.0	.0	.0	.0	9.6	
1-2	1.2	24.1	3.6	.0	.0	.0	28.9	
3-4	.0	12.7	20.5	.6	.0	.0	33.7	
5-6	.0	6.0	10.8	1.2	.6	.0	18.7	
7	.0	.0	2.4	1.2	1.2	.0	4.8	
8-9	.6	.0	.6	1.8	.6	.0	3.6	
10-11	.0	.0	.6	.0	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.0	48.2	38.6	4.8	2.4	.0	100.0	166

PERIOD: (OVER-ALL) 1962-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	2.3	15.3	4.7	1.7	2.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	4
6-7	.0	.6	4.7	11.0	10.5	5.2	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	6
8-9	.6	.0	2.3	5.8	4.7	5.2	2.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	7
10-11	.0	.6	.6	.6	1.2	.6	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
12-13	.0	.0	1.2	2.3	.6	.0	1.7	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
>13	.0	.0	.0	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDET	1.2	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
TOTAL	3	6	44	43	34	24	12	4	2	0	0	0	0	0	0	0	0	0	0	172	6
PCT	1.7	3.5	25.6	25.0	19.8	14.0	7.0	2.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1864-1977

AREA 0011 NEW CALEDONIA
21.6S 165.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	6.3	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0	93.8
NE	.7	2.7	4.1	.0	.0	.0	.0	7.5	2.7	.0	.0	.0	.0	.0	.0	89.8
E	6.7	.0	2.5	.0	.0	.0	.0	9.2	.7	.0	.0	.0	3.0	.0	.0	87.1
SE	.7	1.4	2.8	.0	.0	.0	.0	5.0	.9	.0	.0	.0	.0	.0	.7	93.5
S	1.6	.0	1.6	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	96.9
SW	.0	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	98.7
W	.0	.0	9.1	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	90.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	85.7
TOT PCT	2.3	.8	2.8	.0	.0	.0	.0	5.8	.8	.0	.0	.0	1.0	.3		92.3
TOT OBS:	400															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	.0	1.7	3.4	.0	.0	.0	.0	5.2	1.7	.0	.0	.0	.0	1.7		91.4
06&09	2.6	.6	3.2	.0	.0	.0	.0	6.4	.6	.0	.0	.0	.6	.0		92.3
12&15	.0	1.9	1.9	.0	.0	.0	.0	3.7	1.9	.0	.0	.0	.0	.0		94.4
18&21	3.5	.0	2.1	.0	.0	.0	.0	5.6	.0	.0	.0	.0	2.1	.0		92.3
TOT PCT	2.2	.7	2.7	.0	.0	.0	.0	5.6	.7	.0	.0	.0	1.0	.2		92.5
TOT OBS:	411															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.3	.6	.7	.0	.0	.0		3.6	5.1	3.2	.0	.0	1.8	.0	.0	7.1	8.1
NE	3.2	3.1	3.0	.1	.0	.0		9.5	7.9	14.1	.0	4.7	8.4	6.9	8.3	4.5	12.4
E	3.6	11.5	8.6	1.9	.0	.0		25.6	10.4	24.6	.0	23.6	25.0	21.8	16.7	29.5	28.5
SE	4.5	14.3	13.2	3.2	.0	.0		35.3	11.7	33.5	.0	42.0	39.1	38.3	58.3	34.8	27.1
S	3.5	7.3	4.6	.7	.0	.0		16.0	8.8	16.1	.0	23.6	14.8	17.0	16.7	19.6	12.6
SW	.8	3.0	.7	.2	.0	.0		4.7	8.1	3.6	.0	4.2	4.3	9.6	.0	1.8	5.0
W	1.0	.6	.2	.2	.0	.0		2.1	7.7	1.6	.0	1.9	4.5	.0	.0	2.7	.8
NW	.5	1.2	.0	.0	.0	.0		1.7	4.7	1.6	.0	.0	.4	2.1	.0	.0	3.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.6	.0	.0	1.6	4.3	.0	.0	1.7
TOT OBS	92	183	136	28	0	0	439		9.7	62	0	53	122	47	6	28	121
TOT PCT	21.0	41.7	31.0	6.4	.0	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.5	1.1	.0	.0	.0		3.6	5.1	3.2	1.3	.0	7.9
NE	5.1	3.3	1.1	.0	.0		9.5	7.9	14.1	7.3	7.1	10.9
E	9.5	10.4	5.5	.1	.0		25.6	10.4	24.6	24.6	21.2	28.7
SE	10.3	15.5	8.4	1.0	.0		35.3	11.7	33.5	40.0	40.6	28.5
S	6.8	7.9	1.3	.0	.0		16.0	8.8	16.1	17.4	17.0	13.9
SW	2.6	1.7	.5	.0	.0		4.7	8.1	3.6	4.3	8.5	4.4
W	1.3	.6	.0	.2	.0		2.1	7.7	1.6	3.7	.0	1.2
NW	1.4	.2	.0	.0	.0		1.7	4.7	1.6	.3	1.9	3.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.6	1.1	3.8	1.3
TOT OBS	180	179	74	6	0	439		9.7	62	175	53	149
TOT PCT	41.0	40.8	16.9	1.4	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.6	8.1	30.6	46.8	12.9	.0	.0	13.1	100.0	62
06&09	1.1	20.6	40.6	32.6	5.1	.0	.0	9.5	100.0	175
12&15	3.8	1.9	49.1	30.2	15.1	.0	.0	12.5	100.0	53
18&21	1.3	28.9	45.0	22.8	2.0	.0	.0	7.7	100.0	149
TOT	7	85	183	136	28	0	0	9.7		439
PCT	1.6	19.4	41.7	31.0	6.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	1.2	.6	.0		3.5
NE	1.6	2.0	2.5	2.3		5.1
E	7.6	6.8	7.3	3.3		4.0
SE	14.2	7.3	9.0	4.9		3.8
S	9.6	3.5	3.1	3.2		3.4
SW	.9	2.5	2.0	.1		4.0
W	.4	1.2	.0	.0		2.8
NW	.0	.6	.6	.0		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.0	.0		.5
TOT OBS	62	43	43	24	172	3.9
TOT PCT	36.0	25.0	25.0	14.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	1.7	
.0	.0	.6	.6	2.3	.0	.0	.0	.0	.0	4.9	
.0	1.2	1.2	1.0	3.3	.0	1.7	.0	.0	.0	16.6	
.0	.0	.0	1.9	3.2	1.2	.0	.0	.6	.0	28.6	
.0	.0	.0	1.7	2.5	1.0	.0	.0	.0	.0	14.1	
.0	.0	.0	.6	.3	.7	.0	.0	.0	.0	3.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
0	2	3	10	20	6	4	0	1	0	126	172
.0	1.2	1.7	5.8	11.6	3.5	2.3	.0	.6	.0	73.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
* OR >3500	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
* OR >2000	5.6	6.2	6.2	6.2	6.2	6.2	6.2	6.2
* OR >1000	14.7	16.9	16.9	16.9	16.9	16.9	16.9	16.9
* OR >600	19.2	22.6	22.6	22.6	22.6	22.6	22.6	22.6
* OR >300	19.2	24.3	24.3	24.3	24.3	24.3	24.3	24.3
* OR >150	19.2	25.4	25.4	25.4	25.4	25.4	25.4	25.4
* OR > 0	19.2	25.4	25.4	25.4	25.4	25.4	25.4	25.4
TOTAL	34	45	45	45	45	45	45	45

TOTAL NUMBER OF OBS: 177

PCT FREQ NH <5/8: 74.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.6	18.9	20.0	16.8	9.7	5.4	5.9	5.9	8.6	.0	185

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.8	
1<2	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.2	.3	.9	2.1	.5	.0	.0	.1	.0	.3	4.3	
	TOT %	.2	.3	.9	2.3	.5	.0	.0	.1	.0	.3	4.5	
5<10	PCP	.0	.0	1.0	.8	.0	.1	.2	.0	.0	.0	2.0	
	NO PCP	.0	2.3	6.8	6.5	2.9	.3	.5	.0	.0	.3	19.5	
	TOT %	.0	2.3	7.8	7.3	2.9	.4	.7	.0	.0	.3	21.6	
10+	PCP	.3	.3	.9	.5	.3	.0	.0	.0	.0	.0	2.3	
	NO PCP	3.6	6.0	15.2	25.1	12.0	4.4	1.4	1.8	.0	1.3	70.7	
	TOT %	3.8	6.3	16.2	25.6	12.3	4.4	1.4	1.8	.0	1.3	72.9	
	TOT OBS												399
	TOT PCT	4.0	9.0	25.3	35.4	15.9	4.8	2.1	1.8	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.1	.6	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.6	.0	.0	.0	.0	.0	.0	.7	
1/2<1	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.5	.2	.2	.0	.0	.0	.0		.9	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.7	.5	.5	.0	.0	.0	.0	.0	1.6	
1<2	0-3	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.2	.5	.5	.2	.0	.0	.0	.0		1.4	
	11-21	.0	.5	.0	.0	.0	.0	.0	.0	.0		.5	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.8	.8	.5	.2	.0	.0	.0	.0	.0	2.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.0	1.0	1.1	.5	.0	.0	.1	.0		2.8	
	11-21	.0	.2	.0	1.2	.0	.0	.0	.0	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.2	1.0	2.3	.5	.0	.0	.1	.0	.2	4.4	
5<10	0-3	.0	.5	.8	.6	.7	.1	.4	.0	.0	.2	3.3	
	4-10	.0	1.0	3.3	2.3	.9	.3	.2	.0	.0		7.9	
	11-21	.0	.6	2.4	3.3	.9	.0	.0	.0	.0		7.2	
	22+	.0	.0	1.0	.8	.2	.0	.0	.0	.0		2.1	
	TOT %	.0	2.2	7.4	7.0	2.7	.3	.6	.0	.0	.2	20.5	
10+	0-3	2.4	2.7	2.6	4.0	2.6	.9	.6	.5	.0	1.2	17.2	
	4-10	.5	2.0	6.6	10.3	5.6	2.8	.4	1.2	.0		29.3	
	11-21	.7	1.5	6.0	7.4	3.1	.7	.2	.0	.0		19.8	
	22+	.0	.0	.8	2.5	.5	.2	.2	.0	.0		4.2	
	TOT %	3.5	6.2	15.9	24.2	11.9	4.5	1.5	1.6	.0	1.2	70.5	
	TOT OBS												430
	TOT PCT	3.7	9.4	25.9	35.0	15.7	4.8	2.2	1.7	.0	1.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.4	5.2	12.1	3.4	.0	.0	.0	.0	24.1	75.9	58
06&09	.0	3.8	.0	5.8	13.5	5.8	1.9	.0	.0	.0	30.8	69.2	52
12&15	.0	.0	.0	6.5	6.5	2.2	4.3	.0	2.2	.0	21.7	78.3	46
18&21	.0	.0	3.7	3.7	11.1	.0	3.7	.0	.0	.0	22.2	77.8	27
TOT	0	2	3	10	20	6	4	0	1	0	46	137	183
PCT	.0	1.1	1.6	5.5	10.9	3.3	2.2	.0	.5	.0	25.1	74.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	12.3	87.7	57
06&09	.6	3.4	5.1	10.2	29.4	51.4	177
12&15	1.8	.0	1.8	.0	16.4	80.0	55
18&21	.7	.7	.0	1.3	13.8	83.6	152
TOT	3	7	10	20	89	312	441
PCT	.7	1.6	2.3	4.5	20.2	70.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.6	9.1	14.5	76.4	55
06&09	.0	3.9	9.8	21.6	68.6	51
12&15	.0	.0	6.8	15.9	77.3	44
18&21	.0	3.7	7.4	14.8	77.8	27
TOT	0	5	15	30	132	177
PCT	.0	2.8	8.5	16.9	74.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.3	.0	.0	.3	.0	2	.5
80/84	.0	.0	.0	.0	.5	.8	.0	1.3	10	2.6
75/79	.0	.0	.3	1.0	1.8	5.0	2.6	3.4	54	14.2
70/74	.0	.0	.0	2.4	9.7	20.5	13.6	12.1	222	58.3
65/69	.0	.0	.0	1.6	4.2	4.2	6.0	7.6	90	23.6
60/64	.0	.0	.0	.0	.0	.0	.3	.5	3	.8
TOTAL	0	0	1	20	62	116	87	95	381	100.0
PCT	.0	.0	.3	5.2	16.3	30.4	22.8	24.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.3	.0	.0	.2	.1	.0	.0	.0	.0
	.0	.6	.2	.6	.5	.3	.3	.0	.0	.0
	1.4	1.8	1.8	4.3	2.8	.9	.5	.1	.0	.5
	2.0	4.9	15.9	21.9	7.9	2.2	.5	1.6	.0	1.3
	.5	1.7	6.6	7.2	4.9	1.6	.9	.3	.0	.0
	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0
	4.0	9.3	25.1	34.3	16.4	5.0	2.2	1.9	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	87	78	73	69	68	68	73.8	61
06&09	82	81	77	72	67	64	63	71.7	179
12&15	75	74	74	72	66	65	65	71.2	55
18&21	87	82	76	71	67	66	64	71.1	155
TOT	88	82	77	72	67	65	63	71.7	450

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	9.4	24.5	39.6	24.5	1.9	73	53
06&09	.0	4.5	16.0	27.6	23.1	28.8	81	156
12&15	.0	4.3	17.0	44.7	25.5	8.5	77	47
18&21	.0	5.2	13.3	25.9	22.2	33.3	81	135
TOT	0	21	64	120	91	95	79	391

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
9/10	.0	.0	.0	.4	.0	.0	.0	1	.0	.4
7/8	.0	.0	.0	.4	.4	.4	.0	3	.0	1.3
6	.0	.0	.0	.0	.4	.4	.0	2	.0	.9
5	.0	.0	.9	.4	.4	.0	.0	4	.0	1.7
4	.0	.0	.0	.9	.4	.4	.0	4	.0	1.7
3	.0	.0	.4	2.6	.9	.4	.0	10	.0	4.3
2	.0	.0	1.3	4.7	1.7	.0	.0	18	.0	7.8
1	.0	.0	2.2	2.6	.4	.0	.0	12	.0	5.2
0	.0	1.7	7.3	9.1	.0	.0	.0	42	.0	18.1
-1	.0	.9	4.3	8.2	.4	.0	.0	32	.0	13.8
-2	.0	1.7	5.6	6.0	.0	.0	.0	31	.0	13.4
-3	.0	.9	5.2	1.7	.0	.0	.0	18	.0	7.8
-4	.0	1.7	3.9	1.7	.0	.0	.0	17	.0	7.3
-5	.0	1.3	5.6	.9	.0	.0	.0	18	.0	7.8
-6	.0	1.7	2.6	.0	.0	.0	.0	10	.0	4.3
-7/-8	.0	.9	1.3	.0	.0	.0	.0	5	.0	2.2
-9/-10	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
-11/-13	.4	.4	.0	.0	.0	.0	.0	2	.0	.9
-14/-16	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	1	26	96	92	12	4	1	232	0	232
PCT	.4	11.2	41.4	39.7	5.2	1.7	.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.7	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.7	.0	.0	.0	.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.0	4.0	1.3	.0	.0	.0	5.3
3-4	.0	.7	1.3	.0	.0	.0	2.0
5-6	.0	.2	.7	.0	.0	.0	.8
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.8	4.2	.0	.0	.0	9.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.7	.0	.0	.0	.0	1.2
1-2	.0	2.7	1.0	.0	.0	.0	3.7
3-4	.0	2.0	4.8	.7	.0	.0	7.5
5-6	.0	1.2	4.8	.7	.0	.0	6.7
7	.0	.7	1.5	1.5	.0	.0	3.7
8-9	.0	.0	.0	2.0	.0	.0	2.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.2	12.2	4.8	.0	.0	24.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.0	.0	.0	.0	.0	2.0
1-2	.8	5.8	1.3	.0	.0	.0	8.0
3-4	.0	3.3	7.2	1.3	.0	.0	11.8
5-6	.0	1.3	6.5	.7	.0	.0	8.5
7	.0	.0	1.0	1.8	.0	.0	2.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	12.5	16.0	4.5	.0	.0	33.8

PERIOD: (OVER-ALL) 1963-1977 SEPTEMBER AREA 0011 NEW CALEDONIA

TABLE 18 (CONT) 21.6S 165.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.5	.0	.0	.0	.0	3.2	.0	.2	.0	.0	.0	.0	.2
1-2	1.2	7.3	1.0	.0	.0	.0	9.5	.7	2.3	.0	.0	.0	.0	3.0
3-4	.0	.7	3.3	.0	.0	.0	4.0	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	1.8	.7	.0	.0	2.5	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	.7	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	10.5	6.8	2.0	.0	.0	21.2	.7	2.5	1.5	.7	.0	.0	5.3

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.5	.0	.0	.0	.0	.5	.0	1.3	.0	.0	.0	.0	1.3	
3-4	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.2	.0	.7	.0	.0	1.8	.0	1.3	.0	.0	.0	.0	1.3	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	6.0	.0	.0	.0	.0	9.3	
1-2	2.7	24.0	5.3	.0	.0	.0	32.0	
3-4	.0	6.7	17.3	2.7	.0	.0	26.7	
5-6	.0	2.7	14.7	2.0	.0	.0	19.3	
7	.0	.7	3.3	4.7	.0	.0	8.7	
8-9	.0	.0	.0	2.0	.0	.0	2.0	
10-11	.0	.0	.7	1.3	.0	.0	2.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.0	40.0	41.3	12.7	.0	.0	100.0	150

PERIOD: (OVER-ALL) 1951-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	7.0	16.5	6.3	5.1	1.9	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	4
6-7	.0	1.3	3.8	10.1	10.1	3.8	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	6
8-9	.0	1.9	1.9	1.9	3.8	3.2	2.5	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	26	7
10-11	.0	.0	1.3	.0	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	.6	.0	.0	1.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.9	.0	1.3	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
TOTAL	7	16	40	30	33	17	12	1	1	0	1	0	0	0	0	0	0	0	0	158	5
PCT	4.4	10.1	25.3	19.0	20.9	10.8	7.6	.6	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1892-1977

AREA 0011 NEW CALEDONIA
21.6S 165.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	.8		.0	95.8
E	2.2	1.6	4.0	.0	.0	.0	.0	7.9	.0	.0	.0	.0	.6		.0	91.5
SE	1.4	.6	1.8	.0	.0	.0	.0	3.8	.6	.0	.0	.0	.0		.0	95.6
S	.0	6.0	.0	.0	.0	.0	.0	6.0	.0	.0	.0	.0	.0		.0	94.0
SW	.0	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0		.0	98.0
W	.0	.0	5.8	.0	.0	.0	.0	5.8	.0	.0	.0	.0	.0		.0	94.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	10.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	10.0		.0	80.0
TOT PCT	1.2	1.5	2.2	.0	.0	.0	.0	4.8	.2	.0	.2	.0	.5		.0	94.2
TOT OBS:	413															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.0	3.2	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0		.0	96.8
06&09	.7	.7	2.7	.0	.0	.0	.0	4.1	.7	.0	.0	.0	.7		.0	94.6
12&15	.0	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	1.5	.0	.0		.0	96.9
18&21	2.8	2.1	2.8	.0	.0	.0	.0	7.6	.0	.0	.0	.0	1.4		.0	91.0
TOT PCT	1.2	1.4	2.1	.0	.0	.0	.0	4.8	.2	.0	.2	.0	.7		.0	94.1
TOT OBS:	421															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	2.0	1.0	.0	.0	.0		3.8	7.8	2.9	.0	3.6	1.9	9.3	.0	6.4	2.3
NE	1.2	3.0	3.0	.0	.0	.0		7.2	9.3	8.3	.0	5.9	5.6	6.8	14.3	.5	11.5
E	5.9	15.3	7.7	1.0	.0	.0		29.8	8.6	23.9	25.0	15.0	35.3	17.1	25.0	36.7	41.2
SE	2.9	17.0	19.3	1.4	.0	.0		40.5	11.3	44.6	75.0	55.0	37.9	49.3	32.1	42.0	26.6
S	2.3	3.6	2.0	.6	.0	.0		8.5	9.0	11.2	.0	5.9	8.2	10.7	.0	7.4	8.3
SW	.3	2.0	.5	.1	.0	.0		2.8	7.5	.7	.0	8.2	4.0	2.1	14.3	2.7	.2
W	.6	1.8	.2	.2	.0	.0		2.8	7.1	4.0	.0	2.7	3.5	2.9	.0	.0	2.7
NW	1.1	.4	.7	.0	.0	.0		2.2	6.7	2.9	.0	.0	.9	1.8	14.3	4.3	2.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	1.4	.0	3.6	2.8	.0	.0	.0	4.5
TOT OBS	82	212	161	15	0	0	470		9.4	69	4	55	107	70	7	47	111
TOT PCT	17.4	45.1	34.3	3.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	2.1	.0	.0	.0		3.8	7.6	2.7	2.5	8.4	3.5
NE	3.2	3.0	1.0	.0	.0		7.2	9.3	7.9	5.7	7.5	8.2
E	14.2	12.4	2.8	.4	.0		29.8	8.6	24.0	28.4	17.9	39.9
SE	10.6	21.9	7.7	.3	.0		40.5	11.3	46.2	43.7	47.7	31.2
S	3.7	3.6	.9	.4	.0		8.5	9.0	10.6	7.4	9.7	8.1
SW	1.1	1.7	.1	.0	.0		2.8	7.5	.7	5.4	3.2	.9
W	1.8	.6	.4	.0	.0		2.8	7.1	3.8	3.2	2.6	1.9
NW	1.5	.3	.4	.0	.0		2.2	6.7	2.7	.6	2.9	3.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	1.4	3.1	.0	3.2
TOT OBS	189	214	62	5	0	470		9.4	73	162	77	158
TOT PCT	40.2	45.5	13.2	1.1	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	6.8	49.3	37.0	5.5	.0	.0	10.9	100.0	73
06&09	3.1	15.4	42.6	33.3	5.6	.0	.0	9.7	100.0	162
12&15	.0	3.9	46.8	48.1	1.3	.0	.0	11.2	100.0	77
18&21	3.2	24.1	44.9	27.2	.6	.0	.0	7.6	100.0	158
TOT	11	71	212	161	15	0	0	9.4		470
PCT	2.3	15.1	45.1	34.3	3.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.3	1.0	1.5	1.0		4.0
NE	1.4	2.0	1.5	1.3		4.6
E	7.1	3.2	5.7	3.8		4.4
SE	18.8	11.5	15.5	4.1		3.7
S	1.3	1.5	4.1	1.0		4.8
SW	2.2	.6	.6	.6		3.7
W	.9	1.4	.0	.4		3.4
NW	.6	.5	.0	1.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	.5	.0	.0	1.0		5.6
TOT OBS	69	43	57	28	197	4.1
TOT PCT	35.0	21.8	28.9	14.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	.0	1.0	.0	.0	.0	.0	4.3	
NE	.0	.0	.0	.5	1.1	.5	.0	.0	.0	.0	4.1	
E	.0	.0	.0	1.9	3.2	.0	.0	.0	.0	.0	14.7	
SE	.0	.0	.5	5.8	4.8	3.0	.0	.0	.0	.0	35.7	
S	.0	.0	.0	.4	1.0	.5	.0	.0	.0	.0	6.0	
SW	.0	.1	.0	.0	.5	.0	.0	.0	.0	.0	3.4	
W	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
NW	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.5	
TOT OBS	0	1	1	18	25	10	0	0	0	0	142	197
TOT PCT	.0	.5	.5	9.1	12.7	5.1	.0	.0	.0	.0	72.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	4.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5
* OR >1000	13.5	17.5	18.0	18.0	18.0	18.0	18.0	18.0
* OR >600	21.5	26.0	27.0	27.0	27.0	27.0	27.0	27.0
* OR >300	21.5	26.5	27.5	27.5	27.5	27.5	27.5	27.5
* OR >150	22.0	27.0	28.0	28.0	28.0	28.0	28.0	28.0
* OR > 0	22.0	27.0	28.0	28.0	28.0	28.0	28.0	28.0
TOTAL	44	54	56	56	56	56	56	56

TOTAL NUMBER OF OBS: 200 PCT FREQ NH <5/8: 72.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.2	24.6	18.0	13.7	9.0	7.1	7.1	4.7	9.5 .0	211

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.7	.1	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.3	1.4	2.2	.2	.2	.0	.0	.0	.0	4.4	
	TOT %	.0	.3	2.1	2.2	.2	.2	.0	.0	.0	.0	5.1	
5<10	PCP	.0	.0	1.0	.2	.2	.0	.0	.0	.0	.0	1.5	
	NO PCP	1.0	1.1	2.1	5.7	1.5	.5	.2	.2	.0	.2	12.6	
	TOT %	1.0	1.1	3.1	5.9	1.8	.5	.2	.2	.0	.2	14.0	
10+	PCP	.0	.0	.7	1.2	.2	.1	.2	.0	.0	.2	2.7	
	NO PCP	3.1	5.7	23.8	30.5	5.8	2.3	2.7	2.0	.0	1.9	78.0	
	TOT %	3.1	5.7	24.6	31.7	6.1	2.4	2.9	2.0	.0	2.2	80.6	
	TOT OBS												413
	TOT PCT	4.1	7.1	29.9	39.9	8.1	3.1	3.1	2.2	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.1	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.2	.5	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.8	.1	.0	.0	.0	.0	.0	.0	1.2	
2<5	0-3	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.5	
	4-10	.0	.1	1.6	.9	.2	.2	.0	.0	.0		3.1	
	11-21	.0	.2	.0	1.2	.0	.0	.0	.0	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	2.0	2.2	.2	.2	.0	.0	.0	.0	4.9	
5<10	0-3	.5	.0	.0	.8	.6	.2	.0	.0	.0	.2	2.3	
	4-10	.2	.1	1.3	2.7	.9	.2	.2	.0	.0		5.6	
	11-21	.2	1.0	1.6	1.9	.2	.0	.0	.2	.0		5.2	
	22+	.0	.0	.5	.7	.0	.0	.0	.0	.0		1.2	
	TOT %	.9	1.1	3.3	6.1	1.7	.5	.2	.2	.0	.2	14.3	
10+	0-3	.5	1.3	5.7	2.0	1.8	.1	.6	1.2	.0	2.1	15.3	
	4-10	1.8	2.4	11.9	13.1	2.4	1.6	1.8	.2	.0		35.2	
	11-21	.8	1.8	5.8	15.7	1.6	.5	.2	.5	.0		27.0	
	22+	.0	.0	.6	.6	.4	.1	.2	.0	.0		1.9	
	TOT %	3.1	5.5	23.9	31.5	6.2	2.3	2.8	1.9	.0	2.1	79.3	
	TOT OBS												426
	TOT PCT	4.0	7.2	30.3	39.8	8.2	3.0	3.1	2.2	.0	2.3	100.0	

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1892-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	1.7	5.1	6.8	3.4	.0	.0	.0	.0	16.9	83.1	59
06&09	.0	2.1	.0	4.2	16.7	4.2	.0	.0	.0	.0	27.1	72.9	48
12&15	.0	.0	.0	12.3	8.8	3.5	.0	.0	.0	.0	24.6	75.4	57
18&21	.0	.0	.0	14.0	18.6	11.6	.0	.0	.0	.0	44.2	55.8	43
TOT	0	1	1	18	25	11	0	0	0	0	56	151	207
PCT	.0	.5	.5	8.7	12.1	5.3	.0	.0	.0	.0	27.1	72.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	1.6	9.5	88.9	63
06&09	.6	.0	3.2	9.6	19.9	66.7	156
12&15	.0	.0	.0	.0	13.8	86.2	65
18&21	.0	.7	.0	3.3	10.7	85.3	150
TOT	1	1	5	21	62	344	434
PCT	.2	.2	1.2	4.8	14.3	79.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.8	7.0	10.5	82.5	57
06&09	.0	2.1	8.5	19.1	72.3	47
12&15	.0	.0	13.2	13.2	73.6	53
18&21	.0	2.3	20.9	30.2	48.8	43
TOT	0	3	24	35	141	200
PCT	.0	1.5	12.0	17.5	70.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
80/84	.0	.0	.0	.2	.7	3.2	1.2	.2	23	5.6
75/79	.0	.0	.7	1.7	6.6	9.2	5.8	5.6	122	29.6
70/74	.2	.0	.0	1.9	12.6	19.9	13.8	10.0	241	58.5
65/69	.0	.0	.0	.0	.5	1.9	1.2	2.4	25	6.1
TOTAL	1	0	3	16	84	142	91	75	412	100.0
PCT	.2	.0	.7	3.9	20.4	34.5	22.1	18.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
.2	.3	1.7	1.2	.8	.0	.2	.2	.0	1.0
1.6	3.8	8.1	10.9	1.6	.8	1.2	1.0	.0	.7
2.1	3.2	18.9	24.8	4.9	1.9	1.5	1.0	.0	.2
.0	.3	2.1	2.1	1.3	.1	.2	.0	.0	.0
3.9	7.6	31.1	38.9	8.5	2.7	3.2	2.2	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	81	81	75	69	67	67	75.4	75
06&09	87	83	80	73	69	68	67	73.8	163
12&15	82	81	77	73	68	58	58	72.4	77
18&21	82	81	80	73	69	68	68	73.7	159
TOT	87	82	80	73	69	68	58	73.8	474

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.4	35.3	33.8	14.7	11.8	74	68
06&09	.0	5.4	19.0	38.1	19.0	18.4	77	147
12&15	1.6	1.6	12.7	33.3	42.9	7.9	78	63
18&21	.0	5.0	20.0	30.7	18.6	25.7	79	140
TOT	1	19	88	143	91	76	77	418

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.8	2	.0	.8
9/10	.0	.0	.0	.0	.4	.0	.4	2	.0	.8
7/8	.0	.0	.0	.0	.0	.4	.4	2	.0	.8
6	.0	.0	.0	.0	.0	.4	.8	3	.0	1.2
5	.0	.0	.0	.0	.0	1.7	.8	6	.0	2.5
4	.0	.0	.0	.4	.8	2.1	.0	8	.0	3.3
3	.0	.0	.0	.0	1.2	1.2	.0	6	.0	2.5
2	.0	.0	.0	.4	5.0	1.2	.4	17	.0	7.1
1	.0	.0	.0	.8	5.0	2.9	.0	21	.0	8.7
0	.0	.0	.4	2.1	9.1	2.1	.8	35	.4	14.1
-1	.0	.0	.4	5.0	7.5	1.2	.0	34	.0	14.1
-2	.0	.0	.0	8.3	5.4	1.2	.0	36	.0	14.9
-3	.0	.0	.0	5.0	3.7	.4	.0	22	.0	9.1
-4	.0	.0	.4	5.8	2.9	.0	.0	22	.0	9.1
-5	.0	.0	.4	3.7	1.7	.4	.0	15	.0	6.2
-6	.0	.0	.0	.4	.4	.0	.0	2	.0	.8
-7/-8	.0	.0	.4	1.2	.4	.4	.0	6	.0	2.5
-9/-10	.0	.0	.0	.4	.0	.0	.0	1	.0	.4
-17/-19	.4	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	1	0	5	81	105	38	11	241	1	240
PCT	.4	.0	2.1	33.6	43.6	15.8	4.5	100.0	.4	99.6

PERIOD: (OVER-ALL) 1968-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.6	2.2	1.1	.0	.0	.0	3.9
3-4	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	2.1	.0	.0	.0	5.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.8
1-2	.0	1.1	1.1	.0	.0	.0	2.2
3-4	.0	1.5	.6	.0	.0	.0	2.1
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.3	3.5	.0	.0	.0	6.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.8	.0	.0	.0	.0	2.8
1-2	.0	3.5	3.0	.0	.0	.0	5.5
3-4	.0	2.8	3.5	1.0	.0	.0	7.2
5-6	.6	.0	2.6	.4	.0	.0	3.6
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.6	.6	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.6	.0	.0	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	8.0	11.2	1.9	.0	.0	22.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.5	.0	.0	.0	.0	2.5
1-2	.0	8.0	4.7	.0	.0	.0	12.7
3-4	.0	3.2	12.7	.7	.0	.0	16.6
5-6	.0	1.1	9.9	.7	.0	.0	11.7
7	.0	.0	1.8	.6	.0	.0	2.3
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.8	29.7	1.9	.0	.0	46.4

PERIOD: (OVER-ALL) 1968-1977

OCTOBER

TABLE 18 (CONT)

AREA 0011 NEW CALEDONIA 21.6S 165.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.6	2.8	.0	.0	.0	.0	3.3
3-4	.0	.4	1.0	.0	.0	.0	1.4
5-6	.0	.0	1.8	.0	.0	.0	1.8
7	.0	.0	.4	.6	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	3.2	.6	.0	.0	7.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	1.2	.6	.1	.0	.0	1.9
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	1.1	.1	.0	.0	3.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	.0	.0	.0	.0	2.1
3-4	.0	.4	.0	.4	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	.6	.4	.0	.0	3.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.6	.0	.0	.0	.6	
1-2	.0	.6	1.1	.0	.0	.0	1.7	
3-4	.0	.0	.1	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.6	1.8	.0	.0	.0	2.3	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	6.0	.5	.0	.0	.0	9.3	
1-2	1.1	20.9	11.0	.0	.0	.0	33.0	
3-4	.0	9.9	18.7	2.2	.0	.0	30.8	
5-6	.5	1.1	17.0	1.1	.0	.0	19.8	
7	.0	.0	2.7	1.1	.0	.0	3.8	
8-9	.0	.0	1.6	.0	.0	.0	1.6	
10-11	.0	.0	.5	.5	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.5	.0	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.4	37.9	52.7	4.9	.0	.0	100.0	182

PERIOD: (OVER-ALL) 1958-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	8.4	13.2	7.9	9.5	1.1	.5	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	81	5
6-7	.0	3.7	4.7	12.3	4.2	2.6	2.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	5
8-9	.0	.0	1.1	4.7	4.2	.5	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
10-11	.0	.5	.0	1.1	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	1.1	.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
>13	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	3.2	.5	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	2
TOTAL	8	25	39	58	38	10	8	0	2	1	0	0	0	1	0	0	0	0	0	193	5
PCT	4.2	13.2	20.5	30.5	20.0	5.3	4.2	.0	1.1	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1888-1977

AREA 0011 NEW CALEDUNIA
21.7S 165.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0	.0	.0	93.0
NE	4.1	.7	2.7	.0	.0	.0	.0	4.8	5.9	.0	.0	.0	.0	.0	.0	89.7
E	1.9	1.2	.7	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	97.0
SE	2.5	.0	1.3	.0	.0	.0	.0	3.1	1.3	.9	.0	.0	.6	.0	.0	94.0
S	.0	.0	.0	.0	.0	.0	.0	.0	2.1	1.4	.0	.0	.0	.0	.0	96.6
SW	3.7	.0	.0	.0	.0	.0	.0	3.7	.9	.0	.0	.0	.0	.0	.0	95.4
W	3.8	3.8	.0	.0	.0	.0	.0	7.6	.0	.0	.0	.0	.0	.0	.0	92.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.3	.8	.8	.0	.0	.0	.0	3.2	1.1	.4	.0	.0	.2	.0	95.1	
TOT OBS:	473															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	96.4
06609	3.8	1.1	1.6	.0	.0	.0	.0	4.9	.0	.5	.0	.0	.5	.0	.0	94.1
12615	3.1	1.0	1.6	.0	.0	.0	.0	4.7	4.7	1.6	.0	.0	.0	.0	.0	89.1
18621	1.1	.5	.0	.0	.0	.0	.0	1.6	.5	.0	.0	.0	.0	.0	.0	97.8
TOT PCT	2.3	.8	.8	.0	.0	.0	.0	3.1	1.2	.4	.0	.0	.2	.0	95.1	
TOT OBS:	487															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.4	.8	.2	.0	.0	.0		2.5	5.0	.0	.0	.0	1.2	1.8	.0	10.7	3.7
NE	1.1	2.4	3.5	.3	.0	.0		7.3	10.8	9.9	41.7	4.3	1.2	11.6	.0	13.7	9.6
E	2.1	16.1	12.5	.6	.0	.0		31.3	10.3	23.6	25.0	29.9	30.6	28.6	35.0	41.7	33.4
SE	2.7	14.3	15.8	1.5	.0	.0		34.2	10.8	42.5	33.3	44.0	40.1	29.9	35.0	19.6	27.9
S	1.0	4.3	1.7	.2	.0	.0		7.3	8.7	5.2	.0	10.9	10.7	4.5	30.0	3.6	4.9
SW	2.1	2.5	.6	.4	.0	.0		5.6	6.3	5.7	.0	4.9	6.4	8.0	.0	6.0	4.2
W	1.8	2.1	1.1	.2	.0	.0		5.2	7.0	5.2	.0	3.8	5.3	4.9	.0	2.4	6.8
NW	1.6	1.8	.6	.2	.0	.0		4.2	7.2	2.4	.0	.0	2.6	7.1	.0	2.4	7.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	5.7	.0	2.2	2.0	3.6	.0	.0	2.0
TOT OBS	82	224	182	17	0	0	505		9.5	53	3	46	152	56	5	42	148
TOT PCT	16.2	44.4	36.0	3.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	.6	.1	.0	.0		2.5	5.0	.0	.9	1.6	5.3
NE	1.8	4.1	1.4	.0	.0		7.3	10.8	11.6	1.9	10.7	10.5
E	9.1	18.3	3.8	.2	.0		31.3	10.3	23.7	30.4	29.1	35.3
SE	10.4	18.3	5.2	.2	.0		34.2	10.8	42.0	41.0	30.3	26.1
S	2.4	4.5	.4	.0	.0		7.3	8.7	4.9	10.7	6.6	4.6
SW	3.5	1.7	.4	.0	.0		5.6	6.3	5.4	6.1	7.4	4.6
W	2.9	2.1	.2	.0	.0		5.2	7.0	4.9	4.9	4.5	5.8
NW	2.8	.8	.4	.2	.0		4.2	7.2	2.2	2.0	6.6	6.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	5.4	2.0	3.3	1.6
TOT OBS	188	254	60	3	0	505		9.5	56	198	61	190
TOT PCT	37.2	50.3	11.9	.6	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1888-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.4	7.1	48.4	39.3	1.8	.0	.0	9.4	100.0	56
06609	2.0	11.1	40.9	41.4	4.5	.0	.0	10.5	100.0	198
12615	3.3	8.2	42.6	42.6	3.3	.0	.0	10.7	100.0	61
18621	1.6	20.5	47.9	27.4	2.6	.0	.0	8.0	100.0	190
TOT	12	70	224	182	17	0	0	9.5		505
PCT	2.4	13.9	44.4	36.0	3.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.4	.0	.0		1.5
NE	4.5	1.3	2.0	1.9		3.8
E	6.7	7.4	8.9	7.4		4.7
SE	11.0	10.4	6.0	5.6		3.8
S	2.4	3.0	1.3	.0		3.1
SW	3.0	2.1	1.3	.0		2.6
W	1.0	3.7	.0	.0		3.0
NW	1.7	.7	.6	.0		2.6
VAR	.0	.0	.0	.0		.0
CALM	4.3	.6	.6	.0		1.8
TOT OBS	61	52	36	26	175	3.7
TOT PCT	34.9	29.7	20.6	14.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
NE	.1	.0	.0	1.3	.6	.0	.0	.6	.0	.0	7.1	
E	.4	.0	.4	2.7	5.6	2.3	.4	.0	.0	.0	18.6	
SE	.0	.0	.7	2.4	3.6	.6	.1	.0	.0	.6	25.0	
S	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	5.9	
SW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	5.3	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	
NW	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	2.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	2.9	
TOT OBS	1	0	2	14	19	5	1	1	0	1	131	175
TOT PCT	.6	.0	1.1	8.0	10.9	2.9	.6	.6	.0	.6	74.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >2000	3.3	4.4	4.4	4.4	4.4	4.4	4.4	4.4
* OR >1000	8.7	14.2	15.3	15.3	15.3	15.3	15.3	15.3
* OR >600	15.3	21.9	24.0	24.0	24.0	24.0	24.0	24.0
* OR >300	15.8	23.0	25.1	25.1	25.1	25.1	25.1	25.1
* OR >150	15.8	23.0	25.1	25.1	25.1	25.1	25.1	25.1
* OR > 0	15.8	23.5	25.7	25.7	25.7	25.7	25.7	25.7
TOTAL	29	43	47	47	47	47	47	47

TOTAL NUMBER OF OBS: 183 PCT FREQ NH <5/8: 74.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.3	24.5	17.7	19.3	4.7	4.2	9.4	4.2	8.3 .5	192

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PERIOD: (PRIMARY) 1942-1977
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TABLE 8

AREA 0011 NEW CALEDONIA
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PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.2	.2	.6	2.0	.4	.2	.0	.2	.0	.2	4.0	
	TOT %	.2	.2	1.0	2.4	.4	.2	.0	.2	.0	.2	4.9	
5<10	PCP	.2	.1	.2	.6	.0	.0	.0	.0	.0	.0	1.1	
	NO PCP	.0	1.8	5.0	5.7	1.6	.5	.6	.2	.0	.0	15.4	
	TOT %	.2	1.9	5.1	6.3	1.6	.5	.6	.2	.0	.0	16.5	
10+	PCP	.0	.3	.4	.0	.0	.2	.4	.0	.0	.0	1.3	
	NO PCP	1.9	5.3	24.7	24.9	5.7	4.8	4.5	3.4	.0	1.9	77.2	
	TOT %	1.9	5.6	25.1	24.9	5.7	5.0	4.9	3.4	.0	1.9	78.4	
	TOT OBS												473
	TOT PCT	2.3	7.7	31.4	33.7	7.7	5.8	5.5	3.9	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.4	.1	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.4	.2	.0	.0	.0	.2	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.8	.3	.0	.0	.0	.2	.0	.0	1.4	
2<5	0-3	.2	.2	.2	.4	.0	.0	.0	.2	.0	.2	1.4	
	4-10	.0	.0	.2	1.1	.4	.2	.0	.0	.0		1.9	
	11-21	.0	.0	.6	.7	.0	.0	.0	.0	.0		1.2	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.2	.2	1.0	2.4	.4	.2	.0	.2	.0	.2	4.7	
5<10	0-3	.0	.0	.0	.0	.2	.5	.2	.0	.0	.0	.8	
	4-10	.2	.6	1.2	1.9	.8	.1	.2	.2	.0		5.2	
	11-21	.0	1.1	3.1	4.0	.4	.0	.2	.0	.0		8.9	
	22+	.0	.1	.6	.3	.2	.0	.0	.0	.0		1.2	
	TOT %	.2	1.9	5.0	6.2	1.5	.5	.6	.2	.0	.0	16.1	
10+	0-3	1.1	.9	1.9	1.9	.9	1.8	1.6	1.4	.0	2.3	13.8	
	4-10	.5	1.9	14.1	10.7	3.4	2.3	2.0	1.5	.0		36.3	
	11-21	.3	2.5	8.5	10.9	1.4	.6	1.0	.4	.0		25.6	
	22+	.0	.2	.0	.8	.0	.4	.2	.2	.0		1.9	
	TOT %	1.9	5.5	24.4	24.4	5.7	5.1	4.8	3.6	.0	2.3	77.5	
	TOT OBS												485
	TOT PCT	2.4	7.5	31.2	33.4	7.6	5.8	5.4	4.2	.0	2.5	100.0	

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PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1888-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	5.8	11.5	3.8	.0	.0	.0	.0	21.2	78.8	52
06&09	.0	.0	2.4	16.7	9.5	2.4	2.4	2.4	.0	.0	35.7	64.3	42
12&15	.0	.0	.0	7.4	9.3	1.9	.0	.0	.0	.0	18.5	81.5	54
18&21	2.5	.0	2.5	5.0	12.5	2.5	.0	.0	.0	2.5	27.5	72.5	40
TOT	1	0	2	16	20	5	1	1	0	1	47	141	188
PCT	.5	.0	1.1	8.5	10.6	2.7	.5	.5	.0	.5	25.0	75.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	1.8	10.9	87.3	55
06&09	.0	.5	3.6	9.3	21.2	65.3	193
12&15	.0	.0	1.6	.0	6.3	92.2	64
18&21	.0	.0	.0	2.1	15.0	82.9	187
TOT	0	1	8	23	79	388	499
PCT	.0	.2	1.6	4.6	15.8	77.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	7.7	13.5	78.8	52
06&09	.0	2.5	22.5	15.0	62.5	40
12&15	.0	.0	7.5	11.3	81.1	53
18&21	2.6	5.3	10.5	18.4	71.1	38
TOT	1	3	21	26	136	183
PCT	.5	1.6	11.5	14.2	74.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
85/89	.0	.0	.2	.9	.7	.7	.2	.2	13	3.0
80/84	.0	.0	.5	1.2	3.0	4.8	1.8	.7	52	12.0
75/79	.0	.0	.0	2.1	9.0	15.9	16.9	5.1	212	49.0
70/74	.0	.0	.2	.9	8.5	12.7	7.9	4.2	149	34.4
65/69	.0	.0	.0	.0	.0	.2	.0	.7	4	.9
55/59	.0	.0	.0	.0	.0	.0	.0	.5	2	.5
TOTAL	0	0	4	22	93	149	116	49	433	100.0
PCT	.0	.0	.9	5.1	21.5	34.4	26.8	11.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.2	.0	.0	.0	.0	.0	.0	.0
.2	.3	.6	.5	.3	.3	.9	.0	.0	.0
.5	.9	2.8	3.9	.9	.6	.8	1.4	.0	.2
1.2	5.5	14.5	15.3	3.6	2.3	3.0	1.8	.0	1.6
.5	.9	14.0	12.6	2.1	2.3	1.2	.7	.0	.2
.2	.1	.0	.6	.1	.0	.0	.0	.0	.0
.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.9	7.8	32.2	32.9	7.0	5.4	5.8	4.0	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	86	78	73	68	68	78.5	58
06&09	87	86	82	75	71	66	66	75.5	200
12&15	78	77	77	75	68	60	60	74.2	66
18&21	87	86	83	76	71	59	59	76.0	192
TOT	90	86	82	75	71	66	59	75.9	516

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.0	14.0	36.0	36.0	8.0	77	50
06&09	.0	4.0	20.8	36.4	26.6	12.1	77	173
12&15	.0	.0	9.1	32.7	38.2	20.0	82	55
18&21	.0	10.7	27.8	31.4	20.1	10.1	74	169
TOT	0	28	95	152	119	53	76	447

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.4	1.1	4	.0	1.5
11/13	.0	.0	.0	.0	.0	.4	.0	.0	1	.0	.4
7/8	.0	.0	.0	.0	.0	.4	.7	.7	5	.0	1.9
6	.0	.0	.0	.0	.4	.4	.7	.4	5	.0	1.9
5	.0	.0	.0	.0	.4	.4	1.5	.7	8	.0	3.0
4	.0	.0	.0	.0	.7	3.4	.7	.0	13	.0	4.9
3	.0	.0	.0	.0	.4	1.9	.7	.0	8	.0	3.0
2	.0	.0	.0	.4	2.6	3.7	.4	.0	19	.0	7.1
1	.0	.0	.0	.0	5.2	3.0	.4	.0	23	.0	8.6
0	.0	.0	.0	.4	9.0	7.5	.4	.0	46	.0	17.2
-1	.0	.0	.0	.4	7.9	4.9	.0	.0	35	.0	13.1
-2	.0	.0	.4	1.5	10.5	3.0	.4	.0	42	.0	15.7
-3	.0	.0	.4	1.1	5.2	2.2	.0	.0	24	.0	9.0
-4	.0	.0	.4	.0	1.5	.7	.0	.0	7	.0	2.6
-5	.0	.0	.0	1.1	2.2	.4	.0	.0	10	.0	3.7
-6	.0	.0	.0	.7	.4	.0	.0	.0	3	.0	1.1
-7/-8	.0	.0	.4	.7	2.6	.0	.0	.0	10	.0	3.7
-9/-10	.7	.0	.0	.4	.0	.0	.0	.0	3	.0	1.1
-11/-13	.0	.0	.4	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	2		5		131		17			0	267
		0		18		85		8	267		
PCT	.7	.0	1.8	6.7	49.0	32.3	6.4	3.0	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.7	1.2	.0	.0	.0	.0	1.8
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.7	.0	.0	.0	.0	2.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	2.9	2.2	.0	.0	.0	5.0
3-4	.0	1.0	1.5	.0	.0	.0	2.5
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.0	.7	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	5.4	.7	.0	.0	10.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.0	12.1	1.7	.0	.0	.0	14.8
3-4	.0	2.5	4.0	.0	.0	.0	6.5
5-6	.0	.7	6.0	.5	.0	.0	7.2
7	.0	.0	.7	.7	.0	.0	1.3
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	15.3	13.1	1.2	.0	.0	30.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.3
1-2	.3	7.2	4.2	.0	.0	.0	11.7
3-4	.0	4.7	7.4	.7	.0	.0	12.8
5-6	.0	.0	7.2	.2	.0	.0	7.4
7	.0	.0	2.0	.0	.0	.0	2.0
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	12.6	21.5	.8	.0	.0	35.9

PERIOD: (OVER-ALL) 1963-1977

NOVEMBER

TABLE 18 (CONT)

AREA 0011 NEW CALEDONIA 21.7S 165.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.5	.0	.0	.0	.5
1-2	.0	2.2	.0	.0	.0	.0	2.2
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	3.2	.0	.0	.0	5.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.2	.0	.0	.0	.8
1-2	.0	2.7	.0	.0	.0	.0	2.7
3-4	.0	.0	.5	1.3	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	.7	1.3	.0	.0	5.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7
1-2	.7	.5	1.3	.0	.0	.0	2.5
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	.0	.7	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	.5	2.5	.7	.0	.0	5.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.5	.0	.0	.0	.0	1.5	
3-4	.0	.0	.7	.0	.0	.0	.7	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.5	.7	.0	.0	.0	2.2	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.6	2.0	.7	.0	.0	.0	7.2	
1-2	3.3	30.1	9.2	.0	.0	.0	42.5	
3-4	.7	8.5	16.3	2.0	.0	.0	27.5	
5-6	.0	.7	15.7	1.3	.0	.0	17.6	
7	.0	.0	2.6	1.3	.0	.0	3.9	
8-9	.0	.0	1.3	.0	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.5	41.2	45.8	4.6	.0	.0	100.0	153

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	16.5	15.8	10.8	1.9	1.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	4
6-7	.0	2.5	2.5	8.2	4.4	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	5
8-9	.0	.0	1.9	5.7	4.4	2.5	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
10-11	.0	1.3	1.3	.0	3.2	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
12-13	.0	.0	.0	.6	.6	.6	.0	.0	1.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	5	10
>13	.0	.0	.0	.6	.6	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	5	11
INDET	.6	1.3	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
TOTAL	1	34	36	42	24	10	4	3	3	0	0	1	0	0	0	0	0	0	0	158	5
PCT	.6	21.5	22.8	26.6	15.2	6.3	2.5	1.9	1.9	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1857-1977

AREA 0011 NEW CALEDONIA
21.7S 165.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0		.0	95.0
NE	3.3	.0	1.3	.0	.0	.0	.0	4.6	.0	.0	1.3	.0	.0		.0	94.1
E	1.7	1.4	1.9	.0	.0	.0	.0	4.8	.0	.0	.4	.0	2.3		.0	92.5
SE	3.5	.2	.2	.0	.0	.0	.0	4.0	1.4	.0	.0	.0	.9		.0	93.7
S	2.3	2.3	2.3	.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0		.0	93.0
SW	1.7	0.7	8.3	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0		.0	83.3
W	4.3	.0	4.3	.0	.0	.0	.0	8.7	.0	.0	.0	.0	5.8		.0	85.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7		.0	93.3
TOT PCT	2.5	.9	1.4	.0	.0	.0	.0	4.9	.5	.0	.2	.0	1.4		.0	93.1
TOT OBS:	432															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.3	.0	.0	.0	.0	.0	.0	4.3	2.2	.0	.0	.0	2.2		.0	91.3
06&09	2.3	1.4	1.7	.0	.0	.0	.0	5.1	.0	.0	.6	.0	1.7		.0	92.7
12&15	4.2	.0	2.1	.0	.0	.0	.0	6.3	2.1	.0	.0	.0	.0		.0	91.7
18&21	1.7	1.2	1.2	.0	.0	.0	.0	4.1	.0	.0	.0	.0	1.2		.0	94.8
TOT PCT	2.5	.9	1.4	.0	.0	.0	.0	4.7	.5	.0	.2	.0	1.4		.0	93.2
TOT OBS:	443															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	1.4	.3	.0	.0	.0		3.6	4.5	4.5	.0	1.8	2.0	5.2	.0	.0	6.1
NE	3.2	3.0	1.9	.2	.0	.0		8.3	7.5	9.1	.0	3.6	7.6	7.6	8.3	8.8	10.4
E	5.2	13.4	8.4	1.1	.0	.0		28.2	9.0	29.0	37.5	26.2	30.1	26.2	54.2	26.4	26.2
SE	4.8	14.4	11.1	2.1	.0	.0		32.5	10.0	35.8	37.5	33.3	34.8	40.7	20.8	52.0	22.2
S	2.2	5.4	2.4	.2	.0	.0		10.2	7.7	10.2	.0	20.2	10.1	8.1	16.7	10.1	8.2
SW	1.3	1.8	.4	.0	.0	.0		3.5	5.5	4.5	6.3	1.2	3.7	2.9	.0	.0	4.8
W	2.2	1.3	.8	.0	.0	.0		4.2	5.2	.0	18.6	6.5	6.2	2.3	.0	2.7	3.5
NW	3.5	1.2	.6	.2	.0	.0		5.6	4.9	6.8	.0	2.4	3.0	.0	.0	.0	12.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9							3.9	.0	.0	.0	4.8	2.5	7.0	.0	.0	6.6
TOT OBS	138	205	127	19	0	0	489		8.0	44	4	42	161	43	6	37	152
TOT PCT	28.2	41.9	26.0	3.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	.7	.0	.0	.0		3.6	4.5	4.2	2.0	4.6	4.9
NE	4.3	3.2	.8	.0	.0		8.3	7.5	8.3	6.8	7.7	10.1
E	11.8	13.5	2.9	.0	.0		28.2	9.0	29.7	29.3	29.6	26.2
SE	11.8	15.5	5.0	.2	.0		32.5	10.0	35.9	34.5	38.3	28.0
S	4.8	4.8	.7	.0	.0		10.2	7.7	9.4	12.2	9.2	8.6
SW	2.6	1.0	.0	.0	.0		3.5	5.5	4.7	3.2	2.6	3.8
W	3.1	1.2	.0	.0	.0		4.2	5.2	1.6	6.3	2.0	3.3
NW	4.7	.7	.2	.0	.0		5.6	4.9	6.3	2.8	.0	9.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.9						3.9	.0	.0	3.0	6.1	5.3
TOT OBS	243	198	47	1	0	489		8.0	48	203	49	189
TOT PCT	49.7	40.5	9.6	.2	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1857-1977

AREA 0011 NEW CALEDONIA
21.7S 165.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00-03	.0	4.2	54.2	37.5	4.2	.0	.0	10.6	100.0	48
06-09	3.0	24.6	39.9	26.6	5.9	.0	.0	8.4	100.0	203
12-15	6.1	6.1	44.9	38.8	4.1	.0	.0	10.2	100.0	49
18-21	5.3	33.9	40.2	19.0	1.6	.0	.0	6.5	100.0	189
TOT	19	119	205	127	19	0	0	8.0		489
PCT	3.9	24.3	41.9	26.0	3.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.5	.5	.5		4.2
NE	2.4	1.5	2.6	.3		3.6
E	6.2	5.3	8.2	6.8		5.0
SE	12.0	14.7	10.8	3.9		4.0
S	5.5	3.3	2.6	1.4		3.4
SW	1.5	.7	.0	.2		2.7
W	1.4	1.4	.0	.5		2.9
NW	.7	.7	1.4	.0		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.4	.7	.0	.0		2.3
TOT OBS	46	42	38	20	146	4.1
TOT PCT	31.5	28.8	26.0	13.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	1.0	
NE	.0	.0	.0	.3	.7	.3	.7	.2	.0	.0	4.6	
E	.0	.0	.0	3.1	1.9	3.3	.0	.5	.0	.0	17.8	
SE	.0	.0	.7	2.9	5.7	.7	.7	.0	.0	.0	30.8	
S	.0	.0	.0	.7	.7	.7	.0	.0	.0	.0	10.6	
SW	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.2	
W	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.7	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
TOT OBS	0	0	2	11	13	8	2	1	0	0	109	146
TOT PCT	.0	.0	1.4	7.5	8.9	5.5	1.4	.7	.0	.0	74.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
* OR >3500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >2000	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.3
* OR >1000	15.2	15.9	15.9	15.9	15.9	15.9	15.9	15.9
* OR >600	18.5	22.5	23.2	23.2	23.2	23.2	23.2	23.2
* OR >300	19.2	23.2	23.8	23.8	23.8	23.8	24.5	24.5
* OR >150	19.2	23.2	23.8	23.8	23.8	23.8	24.5	24.5
* OR > 0	19.2	23.2	23.8	23.8	23.8	23.8	24.5	24.5
TOTAL	29	35	36	36	36	36	37	37

TOTAL NUMBER OF OBS: 151 PCT FREQ NH <5/8: 75.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.5	25.5	23.6	12.7	9.6	7.0	6.4	3.2	7.6 .0	157

DECEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1857-1977

AREA 0011 NEW CALEDONIA
21.7S 165.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.5	
	NO PCP	.5	.2	.6	1.7	.7	.0	.0	.0	.0	.0	3.7	
	TOT %	.5	.2	.6	1.9	.9	.0	.0	.0	.0	.0	4.2	
5<10	PCP	.0	.3	1.3	.4	.2	.2	.0	.0	.0	.0	2.6	
	NO PCP	.5	.5	3.2	4.2	2.0	.3	.7	.6	.0	.0	12.1	
	TOT %	.5	.8	4.5	4.6	2.3	.6	.7	.6	.0	.0	14.6	
10+	PCP	.2	.1	.0	.5	.2	.3	.2	.0	.0	.0	1.4	
	NO PCP	2.3	7.7	22.9	25.9	6.5	2.6	3.0	5.1	.0	3.5	79.4	
	TOT %	2.5	7.8	22.9	26.3	6.7	2.8	3.1	5.1	.0	3.5	80.7	
	TOT OBS												431
	TOT PCT	3.5	8.8	28.0	33.1	9.9	3.5	4.0	5.7	.0	3.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.1	.2	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.6	
	4-10	.0	.0	.2	.2	.2	.1	.2	.0	.0		.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.2	.4	.1	.4	.0	.0	.2	1.5	
1<2	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.2	.4	.0	.0	.0	.0		.9	
	11-21	.0	.0	.2	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.2	.0	.0	.2	.0		.4	
	TOT %	.0	.0	.4	.5	.6	.0	.0	.2	.0	.0	1.7	
2<5	0-3	.2	.0	.0	.2	.4	.0	.0	.0	.0	.0	.9	
	4-10	.2	.0	.4	.9	.2	.0	.0	.0	.0		1.7	
	11-21	.0	.2	.2	.2	.2	.0	.0	.0	.0		.9	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	TOT %	.4	.2	.6	1.8	.9	.0	.0	.0	.0	.0	3.9	
5<10	0-3	.3	.1	.3	.6	.6	.3	.4	.5	.0	.2	3.4	
	4-10	.3	.5	2.3	2.1	.8	.3	.4	.1	.0		6.7	
	11-21	.0	.2	1.3	1.6	.7	.1	.0	.0	.0		3.9	
	22+	.0	.0	.4	.3	.0	.0	.0	.0	.0		.6	
	TOT %	.6	.9	4.3	4.6	2.1	.6	.8	.6	.0	.2	14.7	
10+	0-3	1.4	3.1	5.0	4.0	1.1	1.1	1.6	3.1	.0	3.4	23.7	
	4-10	.6	2.5	10.5	11.0	3.8	1.3	.8	1.1	.0		31.7	
	11-21	.3	1.6	6.1	9.2	1.6	.3	.6	.6	.0		20.5	
	22+	.0	.2	.6	1.3	.0	.0	.0	.0	.0		2.2	
	TOT %	2.3	7.3	22.2	25.5	6.6	2.7	3.0	4.8	.0	3.4	78.0	
	TOT OBS												464
	TOT PCT	3.3	8.4	27.7	32.6	10.6	3.4	4.4	5.7	.0	3.9	100.0	

DECEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1857-1977

AREA 0011 NEW CALEDONIA
21.7S 165.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	12.2	9.8	2.4	2.4	.0	.0	.0	26.8	73.2	41
06&09	.0	.0	4.8	4.8	11.9	7.1	.0	.0	.0	.0	28.6	71.4	42
12&15	.0	.0	.0	5.4	2.7	10.8	2.7	2.7	.0	.0	24.3	75.7	37
18&21	.0	.0	.0	5.6	8.3	.0	.0	.0	.0	.0	13.9	86.1	36
TOT	0	0	2	11	13	8	2	1	0	0	37	119	156
PCT	.0	.0	1.3	7.1	8.3	5.1	1.3	.6	.0	.0	23.7	76.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	2.1	.0	4.3	10.6	83.0	47
06&09	.5	2.6	3.6	7.1	20.9	65.3	196
12&15	.0	.0	.0	2.1	10.4	87.5	48
18&21	.0	.5	.5	.5	10.9	87.5	184
TOT	1	7	8	18	71	370	475
PCT	.2	1.5	1.7	3.8	14.9	77.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	12.2	14.6	73.2	41
06&09	.0	4.8	9.5	19.0	71.4	42
12&15	.0	.0	5.7	20.0	74.3	35
18&21	.0	.0	6.1	9.1	84.8	33
TOT	0	2	13	24	114	151
PCT	.0	1.3	8.6	15.9	75.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.5	.3	.0	.3	4	1.0
85/89	.0	.0	.3	1.0	3.4	4.7	.5	.5	40	10.3
80/84	.0	.0	.3	.9	5.9	12.1	6.2	7.2	125	32.3
75/79	.0	.0	.3	1.8	2.8	18.1	16.5	7.5	182	47.0
70/74	.0	.0	.0	.3	2.6	2.6	1.8	1.6	34	8.8
60/64	.0	.0	.0	.0	.0	.0	.0	.5	2	.5
TOTAL	0	0	3	14	59	146	97	68	387	100.0
PCT	.0	.0	.8	3.6	15.2	37.7	25.1	17.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.1	.2	.3	.0	.3	.0	.0	.0	.0
.5	.8	2.6	3.2	.7	.3	.2	.5	.0	1.6
1.0	4.1	9.8	6.8	2.6	1.2	3.0	3.0	.0	.8
.6	3.0	13.1	17.2	6.0	2.1	1.3	2.1	.0	1.6
.2	.6	1.5	4.2	1.8	.1	.2	.3	.0	.0
.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	8.6	27.2	31.7	11.2	3.9	4.7	5.9	.0	3.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	88	86	79	69	61	61	78.2	47
06&09	91	89	87	79	73	72	71	79.0	202
12&15	82	81	81	77	73	72	72	76.6	49
18&21	90	89	87	79	74	72	71	79.3	187
TOT	91	89	86	78	73	71	61	78.8	485

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	8.1	24.3	43.2	16.2	8.1	75	37
06&09	.0	1.8	11.8	39.6	27.2	19.5	80	169
12&15	.0	.0	13.2	34.2	39.5	13.2	80	38
18&21	.0	7.3	17.9	35.1	21.2	18.5	78	151
TOT	0	17	61	149	99	69	79	395

DECEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1857-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.5	.5	2	.0	.9
11/13	.0	.0	.0	.0	.0	.5	.9	.5	4	.0	1.8
9/10	.0	.0	.0	.0	.0	.0	.5	.9	3	.0	1.4
7/8	.0	.0	.0	.0	.0	.0	.9	.0	2	.0	.9
5	.0	.0	.0	.5	.0	1.8	1.4	.0	8	.0	3.7
4	.0	.0	.0	.5	.9	2.8	.9	.0	11	.0	5.0
3	.0	.0	.0	.5	.0	2.8	.0	.0	7	.0	3.2
2	.0	.0	.0	.5	1.8	.9	.5	.0	8	.0	3.7
1	.0	.0	.0	2.3	5.0	.9	.0	.0	18	.5	7.8
0	.0	.0	.5	6.0	6.0	3.2	.0	.0	34	.0	15.6
-1	.0	.0	.0	4.1	9.6	1.4	.5	.0	34	.0	15.6
-2	.0	.0	.9	6.9	8.3	.9	.0	.0	37	.0	17.0
-3	.0	.0	.0	3.7	5.0	.0	.0	.0	19	.0	8.7
-4	.0	.0	.5	1.4	.9	.0	.0	.0	6	.0	2.8
-5	.0	.0	.5	2.8	2.3	.9	.0	.0	14	.0	6.4
-6	.5	.0	.5	.9	.5	.0	.0	.0	5	.0	2.3
-7/-8	.0	.0	.5	.9	.5	.5	.0	.0	5	.0	2.3
-9/-10	.0	.0	.0	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	1	0	7	68	89	36	13	4	218	1	217
PCT	.5	.0	3.2	31.1	40.8	16.5	6.0	1.9	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.6	.6	.0	.0	.0	1.1
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†OT PCT	.0	.6	1.1	.0	.0	.0	1.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.0	.0	.0	.0	.0	.8
1-2	.0	1.9	1.1	.0	.0	.0	3.0
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.9	.8	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†OT PCT	.8	1.9	2.5	.8	.0	.0	5.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.3	.0	.0	.0	.0	3.0
1-2	.6	4.0	2.1	.0	.0	.0	6.6
3-4	.0	1.9	5.7	.0	.0	.0	7.6
5-6	.0	.8	4.5	.0	.0	.0	5.3
7	.0	.6	.0	.6	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†OT PCT	1.3	9.5	12.3	.6	.0	.0	23.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.3	.0	.0	.0	.0	3.0
1-2	.2	9.5	3.0	.0	.0	.0	12.7
3-4	.0	5.7	6.6	.0	.0	.0	12.3
5-6	.0	2.5	7.0	2.3	.0	.0	11.7
7	.0	.2	.8	.2	.0	.0	1.1
8-9	.0	.0	1.5	.8	.0	.0	2.3
10-11	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.8	.0	.0	.0	.8
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
†OT PCT	.9	20.1	19.7	4.0	.0	.0	44.7

PERIOD: (OVER-ALL) 1963-1977

DECEMBER

AREA 0011 NEW CALEDONIA
21.7S 165.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	5.1	1.5	.0	.0	.0	7.6
3-4	.0	.0	1.1	.0	.0	.0	1.1
5-6	.0	.6	1.9	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.1	4.5	.0	.0	.0	12.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.8	.0	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.2	.0	.0	.0	2.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.8	.0	.0	.0	.0	.0	.8
3-4	.0	.8	.0	.0	.0	.0	.8
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	1.5	.6	.0	.0	.0	2.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	.0	.0	.0	.0	.0	.8	
1-2	.8	.8	.0	.0	.0	.0	1.5	
3-4	.0	.0	.8	.0	.0	.0	.8	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	.8	.8	.0	.0	.0	3.0	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.5	6.7	.0	.0	.0	.0	14.2	
1-2	2.2	23.9	8.2	.0	.0	.0	34.3	
3-4	.0	8.2	14.9	.0	.0	.0	23.1	
5-6	.0	3.7	14.9	3.0	.0	.0	21.6	
7	.0	1.5	.7	.7	.0	.0	3.0	
8-9	.0	.0	1.5	.7	.0	.0	2.2	
10-11	.0	.0	.0	.7	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.7	.0	.0	.0	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.7	44.0	41.0	5.2	.0	.0	100.0	134

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	10.1	9.4	8.6	2.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	4
6-7	.0	4.3	9.4	15.8	5.8	3.6	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	5
8-9	.0	.7	1.4	5.0	1.4	2.9	1.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
10-11	.0	3.6	.7	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
12-13	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	2.2	.0	.0	.7	.0	.7	.0	.0	.7	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	8	8
TOTAL	4	26	29	43	16	11	5	1	1	1	2	0	0	0	0	0	0	0	0	139	5
PCT	2.9	18.7	20.9	30.9	11.5	7.9	3.6	.7	.7	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1942-1978
(OVER-ALL) 1856-1978

AREA 0011 NEW CALEDONIA
21.7S 165.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.6	1.6	1.7	.0	.0	.0	.0	9.9	1.2	1.4	.0	.0	.5	.0	87.0
NE	4.1	.8	1.7	.0	.0	.0	.3	6.8	1.8	.6	.4	.0	.1	.0	90.4
E	3.9	1.2	2.4	.0	.0	.0	.0	7.4	1.0	.2	.2	.0	.6	*	90.5
SE	2.7	1.0	1.0	.0	.0	.0	.0	4.6	.9	.3	.1	.0	.3	.1	93.7
S	2.7	1.5	.7	.0	.0	.0	.0	4.9	1.3	.3	.0	.0	.0	.4	93.1
SW	1.5	1.9	1.3	.0	.0	.0	.0	4.6	.4	.7	.0	.0	.1	.0	94.2
W	2.3	2.1	3.6	.0	.0	.0	.0	8.0	1.3	.0	.0	.0	.7	.0	90.1
NW	3.0	1.4	1.2	.0	.0	.0	.0	5.6	.9	.2	.0	.0	.0	.0	93.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	1.2	1.8	.0	.0	.0	.0	4.5	.0	.0	.0	.0	3.4	.0	92.1
TOT PCT	3.2	1.2	1.6	.0	.0	.0	*	6.0	1.0	.3	.1	.0	.4	.1	92.1
TOT OBS:	5277														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.3	1.2	.8	.0	.0	.0	.0	5.3	2.0	.1	.2	.0	.3	.3	91.9
06&09	3.6	1.4	2.3	.0	.0	.0	.0	7.1	.5	.2	.1	.0	.5	.0	91.5
12&15	2.5	1.0	1.2	.0	.0	.0	.0	4.5	2.3	.7	.3	.0	.1	.0	92.1
18&21	3.1	1.1	1.4	.0	.0	.0	*	5.7	.7	.3	.1	.0	.6	.1	92.5
TOT PCT	3.2	1.2	1.6	.0	.0	.0	*	6.0	1.0	.3	.1	.0	.5	.1	92.0
TOT OBS:	5398														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	1.6	.5	*	.0	.0		3.4	6.2	3.3	1.6	1.5	2.4	3.4	1.6	3.1	5.2
NE	1.9	3.5	1.9	.2	.0	.0		7.5	8.1	8.2	6.2	4.6	6.0	7.2	6.3	6.7	10.3
E	3.3	12.8	9.0	1.3	.1	*		26.6	10.1	24.4	22.6	20.0	26.9	23.9	38.8	31.8	29.5
SE	3.4	14.7	15.1	2.7	.2	*		36.2	11.6	41.6	41.7	46.4	37.1	40.1	33.4	36.9	27.5
S	1.7	5.5	3.1	.4	.1	*		10.7	9.1	10.3	4.9	15.0	10.9	12.9	15.3	10.5	8.4
SW	.9	2.8	.9	.1	.0	.0		4.7	7.5	4.7	2.3	5.1	5.0	4.7	1.2	4.8	4.3
W	1.1	1.8	.8	.2	*	.0		3.9	7.7	3.0	3.1	3.9	5.3	2.3	1.2	2.4	4.1
NW	1.4	1.5	.4	.2	*	.0		3.6	7.0	2.5	1.0	1.9	2.7	3.1	1.2	1.9	6.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5							3.5	.0	2.1	.0	1.5	3.8	2.5	1.0	2.0	5.4
TOT OBS							5892		9.7	752	33	608	1634	653	78	500	1634
TOT PCT	18.5	44.1	31.8	5.1	.4	.1		100.0		100.0	83.3	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.1	1.1	.1	.0	.0		3.4	6.2	3.2	2.1	3.2	4.7
NE	3.8	2.9	.8	*	.0		7.5	8.1	8.2	5.6	7.1	9.4
E	9.6	12.5	4.1	.3	*		26.6	10.1	24.5	25.0	25.5	29.6
SE	9.7	18.0	7.7	.8	.1		36.2	11.6	41.8	39.8	39.4	29.2
S	4.4	5.2	1.0	.1	*		10.7	9.1	10.1	11.9	13.1	8.8
SW	2.4	2.0	.3	*	.0		4.7	7.5	4.7	5.1	4.3	4.5
W	2.0	1.5	.4	.1	.0		3.9	7.7	3.0	5.0	2.2	3.7
NW	2.4	.8	.3	.1	*		3.6	7.0	2.4	2.4	2.9	5.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.5						3.5	.0	2.0	3.2	2.4	4.7
TOT OBS						5892		9.7	785	2242	731	2134
TOT PCT	39.9	44.0	14.5	1.4	.2		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1942-1978
(OVER-ALL) 1856-1978

AREA 0011 NEW CALEDONIA
21.7S 165.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	4.5	41.0	43.8	7.6	1.2	.0	12.2	100.0	785
06&09	3.2	15.5	44.3	31.5	5.3	.2	.0	9.6	100.0	2242
12&15	2.4	4.0	41.2	43.5	7.9	.8	.3	12.1	100.0	731
18&21	4.7	22.0	46.4	23.6	2.9	.3	.1	7.9	100.0	2134
TOT								9.7		5892
PCT	3.5	15.1	44.1	31.8	5.1	.4	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.7	.7	.5		3.8
NE	2.2	1.1	1.7	1.6		4.5
E	6.8	5.0	8.0	4.9		4.6
SE	12.7	11.7	12.8	4.4		4.1
S	4.1	3.4	3.2	1.5		3.9
SW	1.7	1.5	1.3	.2		3.6
W	1.0	1.2	.5	.2		3.8
NW	.8	.5	.7	.4		4.3
VAR	.0	.0	.0	.0		.0
CALM	1.1	.3	.2	.3		3.0
TOT OBS					2230	4.1
TOT PCT	31.3	25.4	29.0	14.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	*	.3	.1	.3	*	.0	.0	*	2.0	
NE	*	.0	.1	.7	1.0	.3	.1	.1	.0	*	4.3	
E	.1	.3	.5	2.4	3.2	1.2	.5	.2	*	*	16.2	
SE	.1	.1	.6	2.8	4.7	2.1	.4	.1	*	.1	30.5	
S	.0	*	.1	.9	1.1	.5	.1	.1	.1	*	9.1	
SW	.0	.1	.1	.3	.2	.3	.0	*	.0	.0	3.9	
W	.0	.1	*	.2	.1	.1	.0	.0	.0	.0	2.3	
NW	.1	*	.2	.1	.3	.1	.1	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.1	.1	.0	*	.0	.0	.0	1.5	
TOT OBS												2230
TOT PCT	.4	.6	1.7	7.7	10.9	5.0	1.3	.5	.2	.2	71.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
* OR >3500	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2
* OR >2000	5.6	6.9	7.1	7.1	7.1	7.1	7.1	7.1
* OR >1000	14.1	17.4	18.0	18.0	18.0	18.0	18.0	18.0
* OR >600	19.1	24.4	25.6	25.7	25.8	25.8	25.8	25.8
* OR >300	19.9	25.9	27.2	27.3	27.4	27.5	27.6	27.6
* OR >150	20.0	26.3	27.7	27.8	27.9	28.0	28.0	28.0
* OR > 0	20.2	26.5	28.1	28.3	28.4	28.5	28.5	28.5

TOTAL NUMBER OF OBS: 2281 PCT FREQ NH <5/8: 71.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.1	19.7	20.0	16.1	9.9	6.8	6.9	6.3	9.0 .2	2398

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PERIOD: (PRIMARY) 1942-1976
(OVER-ALL) 1856-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	.0	*	*	.0	.0	.0	.1	
	NO PCP	.0	*	*	*	.0	.0	.0	*	.0	.0	.1	
	TOT %	*	.1	*	.1	.0	*	*	*	.0	.0	.2	
1/2<1	PCP	.0	*	.1	*	*	*	*	.0	.0	.0	.2	
	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.1	.1	*	*	*	.0	.0	.0	.3	
1<2	PCP	*	*	.2	.1	*	*	*	.0	.0	.0	.4	
	NO PCP	.0	*	.1	*	*	*	.0	.0	.0	.0	.1	
	TOT %	*	*	.2	.1	.1	*	*	.0	.0	.0	.5	
2<5	PCP	.1	.1	.3	.2	.1	.0	.0	*	.0	.0	.8	
	NO PCP	.2	.4	1.1	1.9	.5	.2	.2	.2	.0	.1	4.6	
	TOT %	.3	.4	1.4	2.1	.5	.2	.2	.2	.0	.1	5.5	
5<10	PCP	.1	.2	.7	.7	.2	.1	.1	.1	.0	.1	2.2	
	NO PCP	.5	1.2	4.4	5.9	2.1	.7	.6	.4	.0	.4	16.2	
	TOT %	.6	1.4	5.2	6.6	2.3	.8	.6	.5	.0	.4	18.4	
10+	PCP	.1	.1	.6	.6	.2	.1	.1	.1	.0	.1	2.1	
	NO PCP	2.4	5.7	18.9	20.5	7.3	3.5	3.0	2.7	.0	2.9	73.0	
	TOT %	2.6	5.8	19.6	27.0	7.5	3.6	3.1	2.8	.0	3.0	75.1	
	TOT OBS												5274
	TOT PCT	3.4	7.9	26.5	36.1	10.5	4.6	4.0	3.5	.0	3.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.1	*	*	*	*	*	.0	.0	.2	
	4-10	*	*	.1	.2	.1	*	.0	.0	.0		.4	
	11-21	.0	*	.1	.1	*	*	*	.0	.0		.3	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.3	.3	.1	*	*	*	.0	.0	1.0	
1/2<1	0-3	.0	.0	*	*	.1	*	.1	.0	.0	*	.2	
	4-10	*	*	.1	.2	.1	*	*	.0	.0		.5	
	11-21	.0	.0	*	.1	.0	.0	*	.0	.0		.1	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	*	*	.2	.3	.1	*	.1	.0	.0	*	.9	
1<2	0-3	*	*	.1	.1	*	*	.1	*	.0	*	.4	
	4-10	.1	.1	.4	.3	.1	*	*	*	.0		1.0	
	11-21	.0	.1	.2	.2	.1	*	*	*	.0		.6	
	22+	.0	*	*	*	*	.0	.0	*	.0		.1	
	TOT %	.1	.2	.7	.5	.2	*	.1	.1	.0	*	2.1	
2<5	0-3	*	.1	.2	.3	.1	*	*	.1	.0	.1	1.0	
	4-10	.2	.2	.7	.9	.3	.1	.1	.1	.0		2.6	
	11-21	*	.2	.4	.7	.1	*	.1	.0	.0		1.5	
	22+	.0	*	.2	.2	*	.0	.0	*	.0		.4	
	TOT %	.2	.4	1.5	2.2	.6	.2	.2	.2	.0	.1	5.6	
5<10	0-3	.2	.3	.4	.7	.5	.1	.2	.1	.0	.4	2.9	
	4-10	.3	.8	2.1	2.3	.8	.5	.3	.2	.0		7.1	
	11-21	.1	.5	1.9	2.6	.8	.1	.1	.1	.0		6.2	
	22+	.0	*	.5	.9	.1	*	*	.1	.0		1.6	
	TOT %	.5	1.3	5.0	6.5	2.2	.8	.7	.5	.0	.4	17.9	
10+	0-3	1.0	1.6	2.5	2.3	1.1	.7	.8	1.2	.0	2.9	14.1	
	4-10	1.1	2.7	9.5	10.8	4.0	2.0	1.4	1.1	.0		32.5	
	11-21	.4	1.2	6.3	11.3	2.0	.7	.5	.3	.0		22.9	
	22+	*	.1	.6	1.8	.3	.1	.2	.1	.0		3.1	
	TOT %	2.5	5.6	18.9	26.2	7.4	3.5	3.0	2.7	.0	2.9	72.7	
	TOT OBS												5576
	TOT PCT	3.4	7.6	26.6	36.2	10.6	4.6	4.0	3.5	.0	3.5	100.0	

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PERIOD: (PRIMARY) 1942-1978
(OVER-ALL) 1856-1978

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.4	2.0	7.5	9.0	5.4	.6	.3	.0	.1	25.6	74.4	714
06&09	.3	1.1	1.4	8.1	11.5	5.4	1.8	.7	.0	.0	30.3	69.7	586
12&15	.5	.2	1.4	8.7	9.0	3.7	1.8	.8	.7	.2	26.9	73.1	586
18&21	.6	.4	2.1	5.7	13.8	4.8	1.0	.2	.0	.6	29.3	70.7	467
TOT													2353
PCT	.5	.5	1.7	7.7	10.6	4.9	1.2	.5	.2	.2	27.9	72.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.2	.3	2.6	9.7	86.8	745
06&09	2.3	1.9	4.5	10.2	23.9	57.2	2169
12&15	.2	.0	1.1	3.0	14.4	81.3	708
18&21	.2	.3	.5	2.6	15.9	80.5	2079
TOT							5701
PCT	1.0	.9	2.1	5.5	18.0	72.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.4	3.1	11.4	14.9	73.7	699
06&09	.3	3.0	11.8	18.9	69.3	569
12&15	.5	2.1	11.3	16.8	71.9	563
18&21	.7	3.2	10.6	20.1	69.2	450
TOT						2281
PCT	.5	2.8	11.4	17.4	71.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	*	*	.0	*	.0	.0		.1
90/94	.0	.0	*	.1	.2	.1	*	*		.4
85/89	.0	.0	.1	.3	.6	1.1	.4	.3		2.8
80/84	.0	.0	.1	.4	2.6	6.4	5.9	3.7		19.1
75/79	.0	*	.2	1.0	4.1	12.0	11.4	7.4		36.2
70/74	*	*	.1	1.2	6.2	10.3	8.4	5.7		31.9
65/69	.0	.0	.0	.6	1.4	2.3	2.5	2.2		9.1
60/64	.0	.0	.0	.0	*	.1	.1	.2		.4
55/59	.0	.0	.0	.0	.0	.0	.0	*		*
50/54	.0	.0	.0	.0	.0	.0	.0	*		*
TOTAL									4970	100.0
PCT	*	*	.5	3.5	15.2	32.3	28.7	19.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	*	*	*	.0	.0	.0	.0	.0	.0
90/94	*	*	.1	.1	.0	.1	*	.0	.0	.1
85/89	.1	.4	.6	.8	.2	.1	.2	.1	.0	.3
80/84	.6	1.6	6.1	6.0	1.5	.7	.7	1.1	.0	.9
75/79	1.0	2.5	9.2	14.8	3.6	1.5	1.3	1.1	.0	1.2
70/74	.9	2.5	8.5	11.4	3.7	1.7	1.4	1.0	.0	.8
65/69	.5	.8	2.1	2.5	1.6	.6	.5	.3	.0	.2
60/64	.1	*	.1	.1	*	*	.0	*	.0	*
55/59	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
50/54	.0	.0	.0	*	.0	.0	.0	.0	.0	.0
TOTAL PCT	3.2	7.8	26.7	35.7	10.6	4.6	4.1	3.7	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	98	86	83	77	72	68	59	77.1	798
06&09	97	85	82	75	71	68	50	75.7	2251
12&15	84	79	78	75	71	68	58	74.7	745
18&21	95	85	81	75	71	68	59	75.2	2163
TOT	98	85	81	75	71	68	50	75.6	5957

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.2	22.9	36.6	26.1	8.2	75	690
06&09	.0	3.6	14.8	32.7	26.5	22.4	80	1938
12&15	.3	1.8	13.1	35.3	36.8	12.7	79	608
18&21	.0	4.3	13.6	29.3	29.3	23.5	80	1841
TOT	2	207	783	1644	1460	981	79	5077

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PERIOD: (PRIMARY) 1942-1978
(OVER-ALL) 1856-1978

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.1	*	.1	*	6	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.2	.5	.3	*	29	.0	1.1
11/13	.0	.0	.0	.0	.0	.1	*	.2	.1	.0	15	.0	.6
9/10	.0	.0	.0	.0	.1	[illegible]	.2	*	.2	*	17	.0	.6
7/8	.0	.0	.0	.0	.1	[illegible]	.4	.4	.2	.0	40	.0	1.4
6	.0	.0	.0	.0	.1	.2	.3	.2	.0	.0	26	.0	.9
5	.0	.0	.0	.1	.3	.5	.9	.5	*	.0	69	*	2.3
4	.0	.0	.0	.1	.5	1.4	.9	.3	*	.0	97	.0	3.3
3	.0	.0	.0	.1	.6	.8	1.2	.1	.0	.0	84	.0	2.9
2	.0	.0	*	.4	1.9	2.1	1.8	.1	.0	.0	191	.0	6.4
1	.0	.0	*	.5	2.5	3.1	1.6	.1	.0	.0	231	*	7.8
0	.0	.0	.2	1.9	5.0	4.4	2.9	.1	.0	.0	429	*	14.5
-1	.0	.0	.1	2.1	4.6	4.6	1.3	*	.0	.0	376	*	12.8
-2	.0	.0	.3	3.7	5.5	4.1	1.1	*	.0	.0	437	*	14.8
-3	.0	.0	.4	3.3	3.5	3.3	.3	.0	.0	.0	316	.0	10.8
-4	.0	*	.7	2.7	2.8	1.4	.2	.0	.0	.0	230	.0	7.8
-5	.0	.0	.5	2.1	1.8	1.1	.2	.0	.0	.0	167	.0	5.7
-6	.0	*	.3	1.0	.7	.4	.0	.0	.0	.0	69	.0	2.3
-7/-8	.0	*	.5	1.0	.9	.2	*	.0	.0	.0	82	.0	2.7
-9/-10	.1	*	.3	.2	.1	.0	.0	.0	.0	.0	22	.0	.7
-11/-13	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	9	.0	.3
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL											2944		
PCT	.1	.2	3.6	19.3	31.1	28.2	13.9	2.7	.9	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	*	.0	.0	.0	.3
1-2	.1	.7	.3	.0	.0	.0	1.1
3-4	*	.3	.3	.0	.0	.0	.6
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	*	*	.0	.0	.0	.1
8-9	*	.0	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.4	.9	.0	.0	.0	2.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.0	2.1	.8	.0	.0	.0	2.9
3-4	.0	.9	.8	.0	.0	.0	1.7
5-6	.0	.1	.8	.2	.0	.0	1.1
7	.0	*	.2	.1	.0	.0	.3
8-9	*	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.6	2.7	.4	.0	.0	6.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	*	.0	.0	.0	1.3
1-2	.3	5.2	2.2	.0	.0	.0	7.7
3-4	*	2.7	4.7	.6	.0	.0	8.0
5-6	*	.4	3.4	.4	.1	.0	4.4
7	.0	.1	1.5	.5	.0	.1	2.2
8-9	.0	.0	.4	.4	.0	.0	.8
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	*	.0	.0	.1
17-19	.0	*	*	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	9.3	12.5	2.1	.2	.1	24.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.5	.1	.0	.0	.0	2.1
1-2	.2	6.3	3.9	.0	.0	.0	10.3
3-4	.0	4.1	9.7	.8	.0	.0	14.6
5-6	.0	1.2	7.1	1.2	.2	.0	9.6
7	.0	.1	2.2	1.0	*	.1	3.3
8-9	*	.0	.6	.4	.0	.0	1.0
10-11	.0	.0	.2	.2	.1	.0	.5
12	.0	.0	*	*	*	.0	.1
13-16	.0	.0	.0	*	.1	.1	.2
17-19	.0	.0	.0	*	*	.0	.1
20-22	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	13.2	23.9	3.7	.3	.1	41.9

PERIOD: (OVER-ALL) 1963-1978

ANNUAL

TABLE 18 (CONT)

AREA 0011 NEW CALEDONIA 21.7S 165.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	*	.0	.0	.0	1.3
1-2	.2	3.5	.9	.0	.0	.0	4.6
3-4	.0	1.0	2.2	*	.0	.0	3.2
5-6	*	.4	1.5	.2	.1	.0	2.3
7	.0	*	.2	.1	.0	*	.4
8-9	.0	.0	*	*	.0	.0	.1
10-11	.0	.0	.1	.1	*	.0	.1
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.1	4.8	.5	.1	*	12.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.3	*	.0	.0	.0	.3
1-2	.1	1.5	.2	.0	.0	.0	1.9
3-4	.0	.5	.6	.1	.0	.0	1.3
5-6	.0	.2	.4	.1	.0	.0	.8
7	.0	.1	.1	.1	.0	.0	.3
8-9	.0	.0	*	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	1.5	.3	.0	.0	4.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	*	.0	.0	.0	.6
1-2	.2	.8	.2	.0	.0	.0	1.2
3-4	.0	.2	.3	.1	.0	.0	.6
5-6	.1	.1	.3	.1	*	.0	.6
7	.0	.0	.0	.1	.1	.0	.2
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.5	.9	.3	.1	.0	3.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.1	*	.0	.0	.0	.4	
1-2	.1	.8	.2	.0	.0	.0	1.1	
3-4	.0	.1	.2	.0	.0	.0	.3	
5-6	.0	.1	.1	.1	*	.0	.3	
7	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.0	*	.1	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.2	.5	.2	.1	.0	2.2	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	5.0	.4	.0	.0	.0	9.4	
1-2	1.2	20.9	8.6	.0	.0	.0	30.7	
3-4	.1	9.8	18.7	1.6	.0	.0	30.2	
5-6	.2	2.5	13.6	2.2	.4	.0	18.9	
7	.0	.4	4.1	1.9	.1	.2	6.7	
8-9	.1	.0	1.2	1.0	.1	.0	2.3	
10-11	.0	.0	.4	.4	.1	.0	1.0	
12	.0	.0	.1	.1	*	.0	.2	
13-16	.0	.0	*	.2	.1	.0	.3	
17-19	.0	*	*	*	*	.0	.2	
20-22	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	38.6	47.3	7.4	.9	.2	100.0	2055

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	8.5	11.6	7.7	4.2	1.5	.6	.2	.3	*	.0	.0	.0	*	.0	.0	.0	.0	.0	779	4
6-7	.0	1.7	5.6	9.9	6.7	3.8	2.0	.6	.5	.1	.0	.0	.0	.0	*	.0	.0	.0	.0	672	6
8-9	*	.4	2.2	5.0	4.5	3.1	1.7	.5	.6	.4	.1	.0	.0	*	.0	.0	.0	.0	.0	409	7
10-11	.0	.7	.8	.7	1.1	.8	.8	.3	.2	*	.0	.0	.0	*	.0	.0	.0	.0	.0	122	7
12-13	.0	.0	.6	.7	.5	.4	.3	.1	.4	*	.0	*	.0	.0	.0	.0	.0	.0	.0	67	8
>13	.0	.0	.0	.3	.3	.2	.1	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	25	8
INDET	1.9	.3	.5	.6	.6	.2	.1	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	106	4
TOTAL																				2180	6
PCT	3.1	11.5	21.3	25.0	18.1	10.1	5.7	1.8	2.4	.7	.2	.1	.0	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1978
(OVER-ALL) 1856-1978

AREA 0011 NEW CALEDONIA
21.7S 165.7E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1	*
87/88	.4	.3	.3	.4	.0	.0	.0	.0	.0	.0	.0	1.2	7	.2
85/86	.8	2.7	1.3	.7	.0	.0	.0	.0	.0	.0	.0	1.6	20	.6
83/84	10.3	10.4	12.1	2.5	.7	.0	.0	.0	.4	.3	.7	3.5	115	3.4
81/82	37.9	34.3	34.0	27.2	6.2	2.0	.0	.0	.4	2.8	6.6	13.2	466	13.8
79/80	29.2	31.6	31.4	35.3	21.1	4.6	2.4	1.1	1.9	5.5	14.2	27.6	578	17.2
77/78	12.3	9.7	13.7	22.6	31.3	20.5	12.2	5.4	8.7	11.7	25.7	24.9	561	16.7
75/76	4.9	6.8	4.2	7.8	22.9	34.7	22.3	18.4	20.5	19.3	26.7	15.6	578	17.2
73/74	2.0	2.7	1.0	1.8	10.9	30.3	40.4	33.0	33.1	42.8	17.2	6.6	625	18.6
71/72	1.2	1.3	.6	1.9	2.9	5.9	17.1	29.9	22.1	12.4	5.6	2.4	284	8.4
69/70	.8	.0	1.3	.0	3.6	2.0	4.2	9.6	9.5	2.8	3.0	1.2	104	3.1
67/68	.0	.0	.0	.0	.4	.0	1.3	1.9	1.9	1.4	.3	.0	20	.6
65/66	.0	.0	.0	.0	.0	.0	.0	.8	1.5	.9	.0	.0	9	.3
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	243	297	306	283	275	303	287	261	263	290	303	257	3368	100.0
MEAN	79.8	79.9	79.9	79.0	76.6	75.2	73.7	72.7	73.3	74.2	75.3	78.0	76.5	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1009	1010	1007	1011	1009	1006	1008	1012	1010	451
FEB	1010	1009	1008	1010	1009	1009	1008	1010	1009	408
MAR	1011	1011	1009	1009	1011	1008	1009	1010	1010	547
APR	1013	1013	1011	1013	1013	1011	1011	1014	1013	526
MAY	1015	1013	1013	1014	1015	1015	1014	1015	1014	426
JUN	1016	1016	1014	1017	1016	1014	1014	1017	1016	429
JUL	1017		1015	1017	1017	1019	1019	1018	1017	526
AUG	1017	1017	1015	1017	1016	1015	1015	1018	1017	531
SEP	1017		1015	1017	1017	1016	1016	1017	1017	421
OCT	1016	1018	1014	1015	1016	1015	1014	1016	1015	455
NOV	1013	1011	1011	1013	1014	1013	1013	1013	1013	484
DEC	1012	1010	1009	1010	1011	1013	1009	1010	1010	444
ANN	1014	1013	1012	1014	1014	1013	1012	1014	1013	5648
OBS	768	32	612	1494	670	77	512	1483		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	993	997	1002	1007	1010	1013	1016	1019	1020
FEB	998	999	1002	1007	1010	1012	1014	1018	1019
MAR	997	999	1003	1007	1010	1012	1016	1018	1025
APR	1001	1003	1006	1011	1013	1015	1020	1023	1025
MAY	999	1006	1008	1012	1015	1017	1020	1023	1026
JUN	999	1003	1009	1013	1016	1019	1024	1028	1033
JUL	999	1005	1009	1014	1017	1020	1022	1028	1031
AUG	1004	1008	1010	1014	1017	1020	1024	1026	1027
SEP	1004	1008	1011	1014	1016	1019	1024	1026	1027
OCT	1001	1005	1010	1013	1015	1017	1020	1021	1026
NOV	993	994	1006	1011	1013	1015	1019	1023	1027
DEC	997	999	1002	1008	1010	1012	1015	1019	1025

JANUARY

PERIOD: (PRIMARY) 1943-1976
(OVER-ALL) 1901-1976

AREA 0012 NEW HEBRIDES ISLANDS
16.6S 167.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.1	7.1	2.0	.0	.0	.0	.0	16.2	.0	4.6	.0	.0	.0		.0	80.2
NE	6.6	.3	2.7	.0	.0	.0	.0	9.6	.0	2.3	.0	.0	.0		.0	88.7
E	3.3	2.4	.0	.0	.0	.0	.0	5.8	1.3	.0	.0	.0	.0		.0	92.9
SE	.0	.5	.0	.0	.0	.0	.0	.5	1.2	.9	.0	.0	1.9		.0	95.5
S	3.9	.0	.0	.0	.0	.0	.0	3.9	.0	3.9	.0	.0	7.8		.0	84.5
SW	3.5	.0	.0	.0	.0	.0	.0	3.5	.0	.0	.0	.0	.0		.0	96.5
W	21.8	11.5	3.4	.0	.0	.0	.0	36.8	.0	3.4	.0	.0	.0		.0	59.8
NW	17.5	4.8	.6	.0	.0	.0	.0	22.9	4.8	.6	.0	.0	2.4		.0	69.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	13.6	.0	.0	.0	.0	.0	.0	13.6	.0	1.5	.0	.0	.0		.0	86.4
TOT PCT	6.6	2.2	.7	.0	.0	.0	.0	9.5	.9	1.5	.0	.0	.9		.0	87.6
TOT OBS:	548															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.9	11.8	2.9	.0	.0	.0	.0	17.6	5.9	.0	.0	.0	.0		.0	76.5
06&09	8.7	1.6	1.2	.0	.0	.0	.0	11.2	.4	2.5	.4	.0	1.2		.0	85.1
12&15	13.6	.0	.0	.0	.0	.0	.0	13.6	.0	9.1	.0	.0	4.5		.0	72.7
18&21	4.7	1.9	.0	.0	.0	.0	.0	6.6	.8	.0	.0	.0	.4		.0	92.2
TOT PCT	6.7	2.2	.7	.0	.0	.0	.0	9.5	.9	1.4	.2	.0	.9		.0	87.4
TOT OBS:	555															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.1	4.2	.9	.4	.1	.0		8.8	7.0	13.3	25.0	9.2	10.2	6.5	.0	6.0	7.2
NE	6.4	5.7	1.1	.0	*	.0		13.3	4.8	4.7	.0	5.3	15.1	3.3	.0	4.0	15.5
E	7.0	13.8	4.1	.2	.0	.0		25.1	6.9	30.5	33.3	28.9	23.7	34.8	.0	31.0	23.8
SE	4.9	10.4	3.3	.5	*	.0		19.2	7.6	17.2	.0	26.3	18.1	29.3	100.0	29.0	17.8
S	.7	3.4	1.1	.2	.1	.0		5.6	9.3	14.1	.0	13.2	3.2	12.0	.0	12.0	5.0
SW	1.8	2.6	.4	.2	.0	.0		5.0	5.6	3.9	.0	5.3	5.0	1.1	.0	5.0	5.5
W	2.1	1.1	.4	.3	.1	.0		4.0	7.4	2.3	.0	3.9	4.0	12.0	.0	7.0	3.2
NW	2.5	3.5	.8	.4	.4	.0		7.5	8.6	7.8	41.7	7.9	7.6	1.1	.0	2.0	8.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.6							11.6	.0	6.3	.0	.0	13.1	.0	.0	4.0	13.9
TOT OBS	229	354	69	12	5	0	569		6.2	32	3	19	229	23	1	25	237
TOT PCT	40.2	44.6	12.1	2.1	.9	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.8	2.1	.7	.1	.0		8.8	7.0	14.3	10.1	6.3	7.1
NE	10.4	2.8	*	*	.0		13.3	4.8	4.3	14.3	3.1	14.4
E	14.9	8.6	1.5	.0	.0		25.1	6.9	30.7	24.1	33.3	24.5
SE	10.1	7.3	1.8	*	.0		19.2	7.6	15.7	18.8	32.3	18.9
S	2.2	2.8	.5	.1	.0		5.6	9.3	12.9	3.9	11.5	5.6
SW	3.9	.7	.4	.0	.0		5.0	5.6	3.6	5.0	1.0	5.5
W	2.4	1.2	.3	.1	.0		4.0	7.4	2.1	4.0	11.5	3.5
NW	4.3	2.4	.2	.6	.0		7.5	8.6	10.7	7.7	1.0	7.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.6						11.6	.0	5.7	12.1	.0	13.0
TOT OBS	373	159	31	6	0	569		6.2	35	248	24	262
TOT PCT	65.6	27.9	5.4	1.1	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.7	8.6	31.4	34.3	14.3	5.7	.0	13.4	100.0	35
06609	12.1	33.1	45.2	7.7	1.2	.8	.0	5.3	100.0	248
12615	.0	.0	50.0	45.8	4.2	.0	.0	12.0	100.0	24
18621	13.0	29.8	45.4	10.3	1.1	.4	.0	5.5	100.0	262
TOT	66	163	254	59	12	5	0	6.2		569
PCT	11.6	28.6	44.6	12.1	2.1	.9	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	1.1	3.4	3.7		5.6
NE	.3	.0	3.1	.3		6.0
E	6.3	9.9	11.4	2.0		4.2
SE	6.3	6.0	12.5	1.7		4.5
S	1.1	3.1	2.0	2.0		4.7
SW	1.1	.3	1.1	1.1		4.8
W	.0	.0	.9	6.0		7.6
NW	.3	2.3	2.0	3.7		6.1
VAR	.0	.0	.0	.0		.0
CALM	2.3	1.1	.0	.0		1.3
TOT OBS	17	21	32	18	88	4.8
TOT PCT	19.3	23.9	36.4	20.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	2.8	.0	.0	.0	.0	.9	.0	6.3	
NE	.0	.0	.0	.3	.0	2.3	.0	.0	.0	.0	1.1	
E	.0	.0	.0	1.7	3.4	1.1	.0	.0	.0	.0	23.3	
SE	.0	.0	.0	2.0	.0	1.1	.0	.0	.0	.0	23.3	
S	.0	.0	.0	.9	.0	.0	1.1	.0	.0	.0	6.3	
SW	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	1.4	
W	.0	.0	3.1	.9	.0	.0	1.1	.0	.0	.0	1.7	
NW	.0	1.1	.3	1.7	.0	.0	1.1	.0	.3	.0	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	
TOT OBS	0	1	4	10	3	4	3	0	1	0	62	88
TOT PCT	.0	1.1	4.5	11.4	3.4	4.5	3.4	.0	1.1	.0	70.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	2.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3
* OR >2000	6.5	8.7	8.7	8.7	8.7	8.7	8.7	8.7
* OR >1000	7.6	10.9	12.0	12.0	12.0	12.0	12.0	12.0
* OR >600	10.9	21.7	25.0	26.1	26.1	26.1	26.1	26.1
* OR >300	12.0	25.0	29.3	30.4	30.4	30.4	30.4	30.4
* OR >150	12.0	25.0	30.4	31.5	31.5	31.5	31.5	31.5
* OR > 0	12.0	25.0	30.4	31.5	31.5	31.5	31.5	31.5
TOTAL	11	23	28	29	29	29	29	29

TOTAL NUMBER OF OBS: 92 PCT FREQ NH <5/8: 68.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.0	20.4	17.3	15.3	12.2	8.2	6.1	4.1	15.3	.0	98

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.2	.0	.2	.0	.0	.0	.0	.2	.0	.0	.5	
	NO PCP	.0	.0	.2	*	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.0	.4	*	.1	.0	.0	.2	.0	.0	.9	
2<5	PCP	.7	*	.3	.0	.0	.0	.2	*	.0	.0	1.3	
	NO PCP	.4	.3	.3	.4	.0	.5	.3	.2	.0	.5	3.1	
	TOT %	1.1	.4	.6	.4	.0	.5	.5	.3	.0	.5	4.4	
5<10	PCP	.2	.6	.3	.1	.0	.0	.5	.4	.0	.4	2.6	
	NO PCP	1.8	2.1	7.8	3.3	1.0	1.4	.6	2.0	.0	.7	20.8	
	TOT %	2.1	2.8	8.0	3.4	1.0	1.4	1.2	2.4	.0	1.1	23.4	
10+	PCP	.4	.5	.6	.0	.2	.2	.7	1.1	.0	1.3	4.9	
	NO PCP	5.3	9.9	14.9	15.4	3.1	3.1	1.6	3.6	.0	9.1	66.1	
	TOT %	5.7	10.4	15.5	15.4	3.3	3.2	2.3	4.7	.0	10.4	71.0	
	TOT OBS												548
	TOT PCT	9.0	13.7	24.5	19.3	4.7	5.2	4.0	7.6	.0	12.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	4-10	.2	.0	.2	.0	.0	.0	.0	.4	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0		.2	
	TOT %	.2	.0	.7	*	.1	.0	.0	.4	.0	.0	1.4	
2<5	0-3	.3	.1	.1	*	.0	.4	.2	.0	.0	.5	1.6	
	4-10	.3	.2	.2	.2	.0	.2	.3	*	.0		1.4	
	11-21	.2	*	.3	.2	.0	.0	.0	.0	.0		.7	
	22+	.3	.0	.0	.0	.0	.0	.0	.2	.0		.5	
	TOT %	1.1	.4	.6	.4	.0	.5	.5	.3	.0	.5	4.3	
5<10	0-3	.8	1.5	2.9	.6	.0	.6	.1	.5	.0	1.1	8.1	
	4-10	1.0	.9	4.1	1.9	.9	.6	.4	1.3	.0		11.0	
	11-21	.1	.4	1.1	.7	.2	.2	.2	.2	.0		3.1	
	22+	.1	.0	.0	.2	.0	.0	.4	.4	.0		1.1	
	TOT %	2.0	2.7	8.1	3.4	1.0	1.3	1.2	2.3	.0	1.1	23.2	
10+	0-3	2.2	5.0	3.6	4.4	.6	.9	1.7	2.0	.0	10.3	30.6	
	4-10	2.8	4.6	9.1	8.5	1.7	1.8	.4	1.9	.0		30.8	
	11-21	.5	.6	2.7	2.5	.8	.2	.2	.6	.0		8.1	
	22+	.1	*	.2	.4	.2	.2	.0	.2	.0		1.3	
	TOT %	5.6	10.3	15.6	15.6	3.3	3.2	2.2	4.7	.0	10.3	70.7	
	TOT OBS												556
	TOT PCT	8.9	13.5	25.0	19.5	4.6	5.1	3.9	7.6	.0	11.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.1	15.6	3.1	6.3	6.3	.0	.0	.0	34.4	65.6	32
06&09	.0	5.3	5.3	15.8	.0	5.3	.0	.0	.0	.0	31.6	68.4	19
12&15	.0	.0	5.0	20.0	.0	.0	5.0	.0	.0	.0	30.0	70.0	20
18&21	.0	.0	4.3	4.3	8.7	4.3	.0	.0	4.3	.0	26.1	73.9	23
TOT	0	1	4	13	3	4	3	0	1	0	29	65	94
PCT	.0	1.1	4.3	13.8	3.2	4.3	3.2	.0	1.1	.0	30.9	69.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	8.6	25.7	65.7	35
06&09	.0	.4	3.2	6.9	32.0	57.5	247
12&15	4.5	.0	.0	13.6	27.3	54.5	22
18&21	.0	.0	.0	.4	14.7	84.9	259
TOT	1	1	8	24	132	397	563
PCT	.2	.2	1.4	4.3	23.4	70.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.2	22.6	16.1	61.3	31
06&09	.0	11.1	27.8	5.6	66.7	18
12&15	.0	5.0	35.0	5.0	60.0	20
18&21	.0	4.3	13.0	13.0	73.9	23
TOT	0	5	22	10	60	92
PCT	.0	5.4	23.9	10.9	65.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
90/94	.0	.0	.0	.2	.6	.9	.2	.2	11	2.1
85/89	.0	.0	.0	.0	1.5	8.9	5.8	3.6	105	19.8
80/84	.0	.0	.0	.6	3.6	14.1	22.8	22.2	336	63.3
75/79	.0	.0	.0	.0	.4	1.7	4.7	7.7	77	14.5
70/74	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	0	4	32	137	178	180	531	100.0
PCT	.0	.0	.0	.8	6.0	25.8	33.5	33.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
.2	.4	.5	*	.2	.4	.1	.0	.0	.2
2.1	3.4	4.3	3.3	.6	.8	.3	1.4	.0	3.4
4.8	7.6	15.3	13.8	3.5	3.2	3.2	5.0	.0	6.8
2.0	2.3	4.2	.9	1.2	.9	.5	.6	.0	1.9
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
9.1	13.8	24.5	18.1	5.6	5.4	4.1	7.0	.0	12.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	93	92	88	83	79	77	77	83.5	35
06&09	92	90	87	82	78	76	74	82.4	246
12&15	84	83	83	81	77	77	77	80.4	25
18&21	95	91	88	82	77	76	75	82.3	264
TOT	95	91	87	82	77	76	74	82.3	570

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	3.4	55.2	24.1	17.2	79	29
06&09	.0	.4	3.8	24.2	35.2	36.4	85	236
12&15	.0	.0	16.7	22.2	33.3	27.8	82	18
18&21	.0	1.2	7.5	23.8	33.3	34.1	84	252
TOT	0	4	32	137	180	182	84	535

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 /6	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
1-/16	.0	.0	.0	.4	.4	.0	2	.0	.8
9/10	.0	.0	.0	.0	.4	.4	2	.0	.8
7/8	.0	.0	.0	.8	1.2	.0	5	.0	2.0
6	.0	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.0	.4	.4	1.2	.0	5	.0	2.0
4	.0	.0	1.2	2.4	.0	.0	9	.0	3.6
3	.0	.0	.4	2.4	.0	.0	7	.0	2.8
2	.0	.0	2.8	3.2	.0	.0	15	.0	6.0
1	.0	.8	4.4	5.2	.0	.0	26	.0	10.4
0	.0	.8	9.6	2.4	.0	.0	32	.0	12.9
-1	.0	1.2	11.6	3.6	.0	.0	41	.0	16.5
-2	.0	1.2	13.7	.0	.0	.0	37	.0	14.9
-3	.0	2.4	5.6	.4	.0	.0	21	.0	8.4
-4	.0	4.8	4.0	.0	.0	.0	22	.0	8.8
-5	.0	2.0	2.0	.0	.0	.0	10	.0	4.0
-6	.0	2.0	.4	.0	.0	.0	6	.0	2.4
-7/-8	.0	2.8	.0	.0	.0	.0	7	.0	2.8
-11/-13	.4	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	1	45	140	53	9	1	249	0	249
PCT	.4	18.1	56.2	21.3	3.6	.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	2.2	.9	.0	.0	.0	3.2
3-4	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	.9	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.3	2.2	.0	.0	3.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.9	.0	.0	.0	.9
17-19	.0	.0	.0	.0	.9	.0	.9
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	5.1	3.2	.9	.0	12.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.6	.0	.0	.0	3.5
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	2.2	.0	.3	.0	5.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.3	.0	.0	.0	.0	2.5
1-2	.0	12.3	1.9	.0	.0	.0	14.2
3-4	.0	1.3	5.7	.0	.0	.0	7.0
5-6	.0	1.3	1.3	.0	.0	.0	2.5
7	.0	.0	3.5	1.3	.0	.0	4.7
8-9	.0	.0	1.3	.0	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	16.1	13.6	1.3	.0	.0	32.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	1.3	7.0	1.6	.0	.0	.0	9.8
3-4	.0	2.5	3.2	2.5	.0	.0	8.2
5-6	.0	.0	2.5	.0	.0	.0	2.5
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.3	.0	.3
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.2	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	10.8	7.6	2.5	.3	.0	22.5

PERIOD: (OVER-ALL) 1963-1978

JANUARY

TABLE 18 (CONT)

AREA 0012 NEW HEBRIDES ISLANDS
16.0S 167.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	1.3	.9	1.3	.0	.0	3.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.5	.0	.0	.0	2.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	1.3	.0	.0	.0	1.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.9	.0	.0	.9
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	4.7	1.3	.9	.0	9.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.3	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.0	2.8	1.3	.0	.0	4.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.0	.0	.0	.0	.9
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.3	.0	.9	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.9	.9	.0	1.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.3	1.3	1.9	.9	.0	6.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.3	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.3	.3	.0	.0	.6	
8-9	.0	.0	.0	1.6	.3	.0	1.9	
10-11	.0	.0	.0	.3	1.3	.0	1.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.6	.6	2.3	1.6	.0	6.3	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	6.2	.0	.0	.0	.0	11.1	
1-2	1.2	24.7	4.9	.0	.0	.0	30.9	
3-4	.0	6.2	12.3	4.9	.0	.0	23.5	
5-6	.0	1.2	6.2	.0	.0	.0	7.4	
7	.0	.0	8.6	2.5	.0	.0	11.1	
8-9	.0	.0	1.2	3.7	1.2	.0	6.2	
10-11	.0	.0	1.2	2.5	1.2	.0	4.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	1.2	.0	.0	.0	1.2	
17-19	.0	.0	1.2	.0	1.2	.0	2.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	1.2	.0	1.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	38.3	37.0	13.6	4.9	.0	100.0	81

PERIOD: (OVER-ALL) 1964-1978

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	9.4	9.4	.0	14.1	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	5
6-7	.0	1.2	7.1	5.9	7.1	2.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
8-9	.0	1.2	.0	1.2	3.5	1.2	.0	1.2	2.4	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	11
10-11	.0	3.5	.0	.0	1.2	.0	2.4	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
12-13	.0	.0	1.2	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
>13	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	4	11
INDET	3.5	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	1
TOTAL	5	13	15	10	22	4	5	2	3	5	0	0	1	0	0	0	0	0	0	85	6
PCT	5.9	15.3	17.6	11.8	25.9	4.7	5.9	2.4	3.5	5.9	.0	.0	1.2	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1943-1978
(OVER-ALL) 1901-1978

AREA 0012 NEW HEBRIDES ISLANDS
16.7S 167.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	7.6	.0	2.5	.0	.0	.0	.0	10.1	.0	2.5	2.5	.0	1.3		.0	83.5
NE	7.5	2.1	3.1	.0	.0	.0	.0	12.6	.0	.0	.0	.0	.5		.0	86.9
E	5.1	1.1	.9	.0	.0	.0	.0	6.3	1.1	.0	.0	.0	.0		.0	92.6
SE	2.6	1.4	.3	.0	.0	.0	.0	3.8	2.3	.0	.0	.0	1.2		.0	92.8
S	5.6	3.2	.0	.0	.0	.0	.0	8.8	3.2	1.6	.0	.0	.0		.0	86.4
SW	10.7	.0	.0	.0	.0	.0	.0	10.7	.0	2.4	.0	.0	.0		.0	86.9
W	11.3	.0	.0	.0	.0	.0	.0	11.3	6.9	6.5	.0	.0	.0		.0	75.8
NW	6.0	2.6	.0	.0	.0	.0	.0	8.6	.0	2.6	.0	.0	.0		.0	88.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.4	2.7	2.7	.0	.0	.0	.0	10.8	.0	1.4	.0	.0	1.4		.0	87.8
TOT PCT	5.9	1.0	1.4	.0	.0	.0	.0	8.8	1.0	1.0	.2	.0	.6		.0	88.6
TOT OBS:	490															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	15.6	.0	.0	.0	.0	.0	.0	15.6	2.4	3.1	.0	.0	.0		.0	75.0
06&09	7.2	1.4	.5	.0	.0	.0	.0	9.2	.5	1.0	.0	.0	.5		.0	88.9
12&15	5.9	5.9	11.8	.0	.0	.0	.0	17.6	5.9	11.8	.0	.0	.0		.0	64.7
18&21	3.3	2.1	2.1	.0	.0	.0	.0	7.5	.0	.0	.4	.0	.8		.0	91.2
TOT PCT	5.9	1.8	1.6	.0	.0	.0	.0	9.1	1.0	1.0	.2	.0	.6		.0	88.3
TOT OBS:	495															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.6	3.7	.0	.4	.0	.0		7.7	5.4	3.4	33.3	.0	8.5	5.0	.0	.0	8.7
NE	11.3	5.1	1.5	.2	.0	.0		19.1	4.4	1.7	.0	10.0	22.5	6.7	.0	7.4	21.1
E	7.1	8.4	3.1	.0	.0	.0		18.6	6.2	29.3	.0	33.8	15.8	25.0	25.0	23.5	17.7
SE	5.8	7.6	3.9	.8	.0	.0		18.1	7.6	35.3	33.3	18.8	18.3	28.3	25.0	33.8	13.6
S	2.5	3.2	3.4	.3	.0	.0		6.4	8.9	9.5	.0	22.5	3.7	6.7	.0	10.3	6.9
SW	2.3	1.9	.1	.0	.0	.0		4.3	4.0	.9	.0	5.0	4.9	.0	.0	19.1	3.5
W	1.6	.6	1.2	.0	.0	.0		3.4	7.6	12.1	.0	.0	1.4	18.3	.0	.0	3.8
NW	4.0	3.3	.7	.0	.0	.0		7.9	4.8	4.3	33.3	5.0	7.6	10.0	50.0	5.9	8.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.4							14.4	.0	3.4	.0	5.0	17.4	.0	.0	.0	16.4
TOT OBS	265	178	61	9	0	0	513		5.2	29	3	20	201	15	2	17	225
TOT PCT	51.7	34.7	11.9	1.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.1	1.2	.2	.2	.0		7.7	5.4	6.3	7.7	4.4	8.1
NE	16.3	2.0	.8	.0	.0		19.1	4.4	1.6	21.4	5.9	20.2
E	11.2	6.6	.8	.0	.0		18.6	6.2	26.6	17.4	25.0	18.1
SE	10.9	5.1	2.2	.0	.0		18.1	7.6	35.2	18.3	27.9	15.0
S	3.2	2.4	.7	.2	.0		6.4	8.9	8.6	5.4	5.9	7.1
SW	3.8	.5	*	.0	.0		4.3	4.0	.8	4.9	.0	4.6
W	1.9	1.2	.3	.0	.0		3.4	7.6	10.9	1.2	16.2	3.5
NW	6.2	1.5	.2	.0	.0		7.9	4.8	7.0	7.4	14.7	8.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	14.4						14.4	.0	3.1	16.3	.0	15.2
TOT OBS	379	105	27	2	0	513		5.2	32	221	17	243
TOT PCT	73.9	20.5	5.3	.4	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&09	9.1	3.1	25.0	56.3	12.5	.0	.0	13.8	100.0	32
06&09	16.3	39.4	34.4	8.1	1.8	.0	.0	4.6	100.0	221
12&15	.0	23.5	47.1	29.4	.0	.0	.0	8.2	100.0	17
18&21	15.2	40.7	35.4	8.2	.4	.0	.0	4.4	100.0	243
TOT	74	191	178	61	9	0	0	5.2		513
PCT	14.4	37.2	34.7	11.9	1.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.0	2.8	2.8		5.8
NE	.3	.0	3.5	1.7		6.2
E	5.2	4.2	10.4	5.6		5.1
SE	2.8	7.3	13.9	8.0		5.3
S	1.4	5.2	1.4	2.8		4.8
SW	1.4	1.7	.0	1.4		4.6
W	1.4	1.0	.0	3.8		6.0
NW	.3	2.8	2.8	1.7		5.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.4	.0		6.0
TOT OBS	10	16	26	20	72	5.3
TOT PCT	13.9	22.2	36.1	27.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	1.4	1.4	.0	.0	.0	.0	.0	3.8	
.0	.0	.0	.0	1.4	1.7	.0	.0	.0	.0	2.4	
.0	.0	.0	1.4	2.4	3.1	.0	.0	.0	.0	18.4	
.0	1.4	.0	2.8	5.9	.7	1.4	.0	.0	.0	19.8	
.0	.0	.0	2.8	1.4	.0	.0	.0	.0	.0	6.6	
.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	3.1	
.0	.0	1.4	1.0	.0	.0	1.4	.0	.0	.0	2.4	
.0	.0	.0	1.7	1.4	.0	.0	.0	.0	.0	4.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	
0	2	1	9	10	4	2	0	0	0	44	72
.0	2.8	1.4	12.5	13.9	5.6	2.8	.0	.0	.0	61.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	4.1	6.8	8.1	8.1	8.1	8.1	8.1	8.1
* OR >1000	10.8	18.9	21.6	21.6	21.6	21.6	21.6	21.6
* OR >600	13.5	29.7	32.4	33.8	33.8	33.8	33.8	33.8
* OR >300	13.5	31.1	33.8	35.1	35.1	35.1	35.1	35.1
* OR >150	14.9	33.8	36.5	37.8	37.8	37.8	37.8	37.8
* OR > 0	14.9	33.8	36.5	37.8	37.8	37.8	37.8	37.8
TOTAL	11	25	27	28	28	26	28	28

TOTAL NUMBER OF OBS: 74 PCT FREQ NH <5/8: 62.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.3	10.1	27.8	10.1	13.9	13.9	6.3	10.1	6.3	.0	79

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.0	.1	.2	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2	.6	
	NO PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.2	.0	.2	.4	.0	.0	.0	.0	.2	1.0	
2<5	PCP	.0	.2	.2	.2	.0	.2	.0	.2	.0	.4	1.4	
	NO PCP	1.0	1.7	1.4	1.3	.0	.6	.2	.7	.0	1.2	8.2	
	TOT %	1.0	1.9	1.6	1.5	.0	.8	.2	.9	.0	1.6	9.6	
5<10	PCP	.2	.8	.6	.3	.4	.1	.4	.5	.0	.4	3.5	
	NO PCP	1.0	2.9	3.5	3.6	1.0	.7	.4	1.1	.0	2.0	16.1	
	TOT %	1.2	3.7	4.0	3.9	1.4	.7	.7	1.6	.0	2.4	19.6	
10+	PCP	.4	1.1	.4	.2	.0	.2	.0	.0	.0	.6	2.9	
	NO PCP	5.3	12.8	11.8	11.8	4.4	2.6	2.2	5.3	.0	10.2	66.3	
	TOT %	5.7	13.8	16.2	12.0	4.4	2.8	2.2	5.3	.0	10.8	69.2	
	TOT OBS												490
	TOT PCT	8.1	19.8	17.9	17.6	6.4	4.3	3.2	7.7	.0	15.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.2	.0	.1	.2	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.1	.2	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.2	.1	.0	.0	.2	.2	.0	.2	.8	
	4-10	.0	.3	.2	.2	.6	.1	.0	.0	.0		1.2	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.3	.5	.6	.1	.2	.2	.0	.2	2.2	
2<5	0-3	.3	.6	.4	.7	.0	.8	.0	.4	.0	1.6	4.6	
	4-10	.8	.8	1.3	.4	.0	.0	.0	.5	.0		3.6	
	11-21	.0	.6	.0	.2	.0	.0	.2	.0	.0		1.0	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	1.0	1.9	1.6	1.5	.0	.8	.2	.9	.0	1.6	9.4	
5<10	0-3	.2	1.3	.8	.3	.5	.2	.2	.8	.0	2.4	6.6	
	4-10	.8	2.2	2.0	1.9	.7	.5	.0	.7	.0		8.8	
	11-21	.0	.2	1.2	1.4	.2	.1	.5	.3	.0		3.8	
	22+	.2	.0	.0	.2	.0	.0	.0	.0	.0		.4	
	TOT %	1.2	3.6	4.0	3.8	1.4	.7	.7	1.8	.0	2.4	19.4	
10+	0-3	3.1	9.8	5.9	4.9	1.0	1.4	1.3	2.7	.0	10.6	40.6	
	4-10	2.3	3.1	4.5	5.0	1.9	1.2	.5	2.3	.0		20.6	
	11-21	.0	.5	1.8	2.0	1.2	.1	.5	.2	.0		6.2	
	22+	.2	.2	.0	.3	.4	.0	.0	.0	.0		1.0	
	TOT %	5.6	13.6	12.2	12.2	4.4	2.7	2.2	5.2	.0	10.6	68.4	
	TOT OBS												500
	TOT PCT	7.9	19.5	18.0	17.9	6.4	4.3	3.3	8.0	.0	14.8	100.0	

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PERIOD: (PRIMARY) 1943-1978
(OVER-ALL) 1901-1978

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	6.5	3.2	12.9	12.9	6.5	3.2	.0	.0	.0	45.2	54.8	31
06&09	.0	.0	.0	12.5	18.8	6.3	6.3	.0	.0	.0	43.8	56.3	16
12&15	.0	.0	.0	.0	15.4	.0	.0	.0	.0	.0	15.4	84.6	13
18&21	.0	.0	.0	16.7	5.6	5.6	.0	.0	.0	.0	27.8	72.2	18
TOT	0	2	1	9	10	4	2	0	0	0	28	50	78
PCT	.0	2.6	1.3	11.5	12.8	5.1	2.6	.0	.0	.0	35.9	64.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	3.1	3.1	31.3	62.5	32
06&09	.5	.5	4.6	18.1	25.0	51.4	216
12&15	.0	5.9	.0	.0	17.6	76.5	17
18&21	.0	.0	.0	2.9	12.5	84.6	240
TOT	1	2	11	47	97	347	505
PCT	.2	.4	2.2	9.3	19.2	68.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	10.0	30.0	20.0	50.0	30
06&09	.0	.0	20.0	26.7	53.3	15
12&15	.0	.0	.0	15.4	84.6	13
18&21	.0	.0	25.0	12.5	62.5	16
TOT	0	3	16	14	44	74
PCT	.0	4.1	21.6	18.9	59.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.3	.6	.6	.6	14	3.0
85/89	.0	.0	.0	.0	1.1	10.4	9.1	3.8	115	24.5
80/84	.0	.0	.0	.4	1.5	14.9	27.9	16.6	288	61.3
75/79	.0	.0	.0	.0	.4	1.5	2.1	7.2	53	11.3
TOTAL	0	0	0	2	20	129	187	132	470	100.0
PCT	.0	.0	.0	.4	4.3	27.4	39.8	28.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.4	.6	.6	.2	.2	.0	.2	.0	.4
1.5	4.5	3.2	3.7	1.4	.6	.7	2.8	.0	6.0
4.9	13.3	11.6	11.2	4.0	2.8	2.6	4.1	.0	6.8
.6	1.8	2.4	1.8	.9	.9	.0	.9	.0	2.1
7.2	20.1	17.9	17.3	6.4	4.5	3.3	8.0	.0	15.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	89	82	79	79	79	82.9	33
06&09	90	89	88	83	78	76	76	82.6	214
12&15	84	83	83	81	78	78	78	81.3	19
18&21	94	93	88	83	78	76	75	83.0	243
TOT	94	91	88	83	78	76	75	82.9	509

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.2	8.3	50.0	16.7	20.8	79	24
06&09	.0	.0	3.5	27.9	36.8	31.8	84	201
12&15	.0	.0	12.5	31.3	50.0	6.3	81	16
18&21	.0	.4	3.9	24.9	43.8	27.0	84	233
TOT	0	2	20	131	188	133	84	474

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.4	.0	1	.0	.4
14/16	.0	.0	.0	.4	.0	.0	1	.0	.4
9/10	.0	.0	.0	.0	.4	.4	2	.0	.8
7/8	.0	.0	.0	.0	1.2	.4	4	.0	1.6
6	.0	.0	.4	.8	.0	.4	4	.0	1.6
4	.0	.4	.4	2.4	.8	.0	10	.0	4.0
3	.0	.0	.8	.8	.0	.0	4	.0	1.6
2	.0	.0	2.4	5.6	.0	.0	20	.0	8.0
1	.0	.0	5.2	4.0	.0	.0	23	.0	9.2
0	.0	.0	13.7	2.0	.0	.0	39	.0	15.7
-1	.0	.8	11.2	2.0	.0	.0	35	.0	14.1
-2	.0	1.6	9.2	.4	.0	.0	28	.0	11.2
-3	.0	4.0	6.8	.4	.0	.0	28	.0	11.2
-4	.0	4.8	4.4	.0	.0	.0	23	.0	9.2
-5	.0	4.8	.8	.0	.0	.0	14	.0	5.6
-6	.0	2.0	.4	.0	.0	.0	6	.0	2.4
-7/-8	.8	1.2	.0	.0	.0	.0	5	.0	2.0
-9/-10	.4	.0	.4	.0	.0	.0	2	.0	.8
TOTAL	3	49	140	47	7	3	249	0	249
PCT	1.2	19.7	56.2	18.9	2.8	1.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	1.8	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	1.8	.0	.0	1.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	.4	.0	.0	.0	2.6
3-4	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	.4	2.2	.0	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	2.6	.0	.0	.0	7.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.8	11.0	3.1	.0	.0	.0	15.8
3-4	.0	4.8	3.5	.0	.0	.0	8.3
5-6	.0	1.3	4.8	.0	.0	.0	6.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	17.1	11.4	.0	.0	.0	30.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.1	1.8	.0	.0	.0	7.9
3-4	.0	2.2	7.5	.4	.0	.0	10.1
5-6	.0	.0	5.3	.0	.0	.0	5.3
7	.0	.0	.0	3.5	.0	.0	3.5
8-9	.0	.0	1.8	1.8	.0	.0	3.5
10-11	.0	.0	1.8	.0	.0	.0	1.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	8.3	18.0	5.7	.0	.0	32.0

PERIOD: (OVER-ALL) 1963-1978 FEBRUARY AREA 0012 NEW HEBRIDES ISLANDS

TABLE 1e (CONT) 16.7S 167.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	1.8	.0	.0	.0	.0	1.8
3-4	.0	.0	9.6	1.3	.0	.0	11.0
5-6	.0	.0	.0	1.8	.0	.0	1.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	9.6	3.1	.0	.0	16.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.8	.0	.0	.0	.0	1.8
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	.4	.0	.0	.0	2.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.3	.0	.0	.0	1.3
3-4	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	.0	1.8	.0	.0	.0	1.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	3.1	.0	.0	.0	4.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.8	2.2	.0	.0	.0	3.9	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.8	2.2	.0	.0	.0	3.9	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	1.6	.0	.0	.0	.0	3.3	
1-2	3.3	26.2	8.2	.0	.0	.0	37.7	
3-4	1.6	9.8	19.7	3.3	.0	.0	34.4	
5-6	.0	1.6	13.1	1.6	.0	.0	16.4	
7	.0	.0	.0	3.3	.0	.0	3.3	
8-9	.0	.0	1.6	1.6	.0	.0	3.3	
10-11	.0	.0	1.6	.0	.0	.0	1.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	39.3	44.3	9.8	.0	.0	100.0	61

PERIOD: (OVER-ALL) 1952-1978 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	12.3	12.3	9.6	2.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
6-7	.0	1.4	4.1	5.5	4.1	2.7	1.4	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	6
8-9	.0	1.4	1.4	2.7	4.1	1.4	1.4	1.4	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
10-11	.0	.0	.0	1.4	1.4	.0	2.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	1.4	2.5	5.5	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	3
TOTAL	1	15	17	15	10	4	4	4	3	0	0	0	0	0	0	0	0	0	0	73	5
PCT	1.4	20.5	23.3	20.5	13.7	5.5	5.5	5.5	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1856-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.5S 167.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	9.5	.0	1.4	.0	.0	.0	.0	10.9	.0	1.4	.0	.0	1.1		.0	86.6
NE	16.5	1.1	1.1	.0	.0	.0	.0	18.7	.3	.0	.0	.0	.3		.0	80.7
E	9.7	.0	1.1	.0	.0	.0	.0	11.5	.5	.6	.0	.0	1.8		.0	85.6
SE	8.9	4.7	.2	.0	.0	.0	.0	13.8	1.9	.9	.0	.0	.5		.0	82.9
S	4.2	2.8	2.1	.0	.0	.0	.0	9.2	.0	.0	.0	.0	4.2		.0	86.6
SW	4.2	3.4	.8	.0	.0	.0	.0	8.5	3.4	.0	.0	.0	.0		.0	88.1
W	10.8	.0	.0	.0	.0	.0	.0	10.8	4.8	2.9	.0	.0	.0		.0	81.9
NW	6.3	.0	3.9	.0	.0	.0	.0	10.2	.0	.0	.0	.0	4.4		.0	85.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	10.3	.0	3.4	.0	.0	.0	.0	13.8	1.7	.0	.0	.0	.0		.0	84.5
TOT PCT	9.8	1.4	1.4	.0	.0	.0	.0	12.6	1.1	.0	.0	.0	1.2		.0	84.4
TOT OBS:	641															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	3.3	.0	.0	.0	.0	.0	5.3	10.9	.0	.0	.0	.0		.0	84.2
06&09	11.3	1.4	1.4	.0	.0	.0	.0	14.1	.4	1.1	.0	.0	.4		.0	84.2
12&15	8.7	8.7	.0	.0	.0	.0	.0	17.4	4.3	4.3	.0	.0	4.3		.0	69.6
18&21	9.3	.9	2.2	.0	.0	.0	.0	12.4	.9	.0	.0	.0	1.9		.0	84.8
TOT PCT	9.9	1.5	1.7	.0	.0	.0	.0	13.1	1.1	.9	.0	.0	1.2		.0	84.0
TOT OBS:	649															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	5.2	3.9	1.4	.3	.0	.0		10.8	5.9	9.8	.0	3.1	13.7	3.7	50.0	3.4	10.0
NE	6.4	5.7	1.7	.4	.0	.0		14.2	6.0	7.6	.0	4.2	13.4	10.2	50.0	15.5	16.2
E	9.2	11.8	4.0	.3	.0	.0		25.3	6.4	21.7	.0	43.8	21.1	36.1	.0	24.1	27.2
SE	3.7	8.0	5.0	.5	.1	*		17.4	9.0	26.1	.0	32.3	18.0	34.3	.0	33.6	12.0
S	1.5	2.8	.8	.0	.0	.1		5.2	8.0	.0	.0	3.1	5.5	8.3	.0	2.6	5.5
SW	2.1	2.1	.1	.1	.0	.0		4.4	5.7	4.3	.0	.0	3.3	7.4	.0	6.9	5.2
W	3.1	2.2	.9	.0	.0	.0		6.1	5.1	13.0	.0	4.2	6.3	.0	.0	9.5	5.8
NW	4.3	3.0	.4	.1	.0	.0		7.7	4.7	8.7	.0	9.4	7.8	.0	.0	4.3	8.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.9							8.9	.0	8.7	.0	.0	10.9	.0	.0	.0	9.5
TOT OBS	308	273	99	12	1	1	694		6.0	23	0	24	285	27	1	29	305
TOT PCT	44.4	39.3	14.3	1.7	.1	.1		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.9	2.3	.5	.2	.0		10.8	5.9	9.8	12.9	5.4	9.4
NE	9.7	3.7	.6	.1	.0		14.2	6.0	7.6	12.7	11.6	15.2
E	18.1	7.9	1.3	.0	.0		25.3	6.4	21.7	22.8	34.8	20.9
SE	7.6	8.3	1.2	.3	*		17.4	9.0	26.1	19.1	33.0	13.9
S	2.8	2.1	.3	.0	.1		5.2	8.0	.0	5.3	8.0	5.2
SW	2.7	1.5	.1	.0	.0		4.4	5.7	4.3	3.1	7.1	5.4
W	4.7	1.3	.1	.0	.0		6.1	5.1	13.0	6.1	.0	6.1
NW	6.3	1.2	.1	.1	.0		7.7	4.7	8.7	7.9	.0	3.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.9						8.9	.0	8.7	10.0	.0	8.7
TOT OBS	463	196	29	5	1	694		6.0	23	309	28	334
TOT PCT	66.7	28.2	4.2	.7	.1		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1886-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.5S 167.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	8.7	8.7	47.8	34.8	.0	.0	.0	8.9	100.0	23
06&09	10.0	35.9	40.5	12.0	1.3	.3	.0	5.6	100.0	309
12&15	.0	3.6	57.1	35.7	3.6	.0	.0	10.6	100.0	28
18&21	8.7	39.5	36.2	13.2	2.1	.0	.3	5.8	100.0	334
TOT	62	246	273	99	12	1	1	6.0		694
PCT	8.9	35.4	39.3	14.3	1.7	.1	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.4	3.6	2.2		6.5
NE	.4	1.4	.7	3.6		6.3
E	0.9	5.8	9.8	3.6		4.5
SE	4.4	8.7	12.0	6.5		4.6
S	2.2	.0	.0	1.1		3.4
SW	1.4	.0	.0	2.9		6.0
W	1.4	1.4	2.9	2.5		5.3
NW	.0	1.4	2.9	2.2		6.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.4	.0		6.0
TOT OBS	13	14	23	17	69	5.0
TOT PCT	21.7	20.3	33.3	24.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	2.8	2.2	1.1	.0	.0	.0	.0	1.4	
NE	.0	.0	.0	.4	.7	.4	.0	.0	.0	.0	4.7	
E	.0	.0	1.1	4.0	2.5	2.9	.0	.0	.0	.0	15.5	
SE	.0	.0	1.8	1.8	3.3	.0	1.4	.0	.0	.0	28.3	
S	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	2.2	
SW	.0	.0	.0	.0	1.4	1.4	.0	.0	.0	.0	1.4	
W	.0	.0	1.4	1.4	1.1	.0	.0	.0	.0	.0	4.3	
NW	.0	.0	.0	1.8	.4	.0	.0	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	0	0	3	9	8	4	1	0	0	0	44	69
TOT PCT	.0	.0	4.3	13.0	11.6	5.8	1.4	.0	.0	.0	63.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >2000	2.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8
= OR >1000	11.6	17.4	17.4	17.4	17.4	17.4	17.4	17.4
= OR >600	17.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
= OR >300	20.3	33.3	33.3	34.8	34.8	34.8	34.8	34.8
= OR >150	20.3	33.3	33.3	34.8	34.8	34.8	34.8	34.8
= OR > 0	20.3	33.3	33.3	34.8	34.8	34.8	34.8	34.8
TOTAL	14	23	23	24	24	24	24	24

TOTAL NUMBER OF OBS: 69

PCT FREQ NH <5/8: 65.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.4	13.3	25.3	14.5	9.6	2.4	7.2	10.8	14.5	.0	83

MARCH

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1856-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.2	*	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.2	*	.0	.0	.0	.0	.3	
1/2<1	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.3	.0	.0	.3	.0	.0	.2	.0	.0	.3	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.3	.0	.0	.2	.0	.0	.3	1.1	
2<5	PCP	.4	1.0	.6	.2	.1	.0	.0	.0	.0	.0	2.3	
	NO PCP	1.7	1.4	2.5	1.3	.3	.0	.5	1.2	.0	.0	8.7	
	TOT %	2.1	2.3	3.0	1.5	.4	.0	.5	1.2	.0	.0	11.1	
5<10	PCP	.2	.4	.5	.4	.2	.0	.3	.2	.0	.2	2.8	
	NO PCP	1.2	1.4	4.1	3.1	.7	.3	.8	.8	.0	.9	13.3	
	TOT %	1.4	1.8	4.6	4.0	.8	.3	1.1	.9	.0	1.1	16.1	
10+	PCP	.1	1.3	1.7	.9	.0	.4	.2	.7	.0	.8	5.9	
	NO PCP	7.0	8.8	15.1	9.4	4.1	3.9	4.5	5.2	.0	6.9	65.4	
	TOT %	7.1	10.1	16.8	10.8	4.1	4.3	4.7	5.9	.0	7.6	71.3	
	TOT OBS												641
	TOT PCT	11.1	14.2	24.5	16.6	5.5	4.6	6.5	8.0	.0	9.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.6	.8	
	4-10	.0	.0	.0	.3	.1	*	.0	.2	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0		.2	
	TOT %	.0	.2	.0	.3	.2	*	.0	.2	.0	.6	1.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.2	.0	.0	.2	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.3	.0	.2	.3	.0	.0	.2	.2	.0	.3	1.4	
	4-10	.0	.3	.2	.3	.0	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.3	.3	.3	.8	.0	.0	.2	.2	.0	.3	2.3	
2<5	0-3	.6	.5	1.4	.7	.3	.0	.3	.3	.0	.0	4.1	
	4-10	.9	1.4	1.4	.7	.0	.0	.2	.6	.0		5.1	
	11-21	.5	.3	.2	*	.1	.0	.0	.2	.0		1.2	
	22+	.1	.2	.0	.0	.0	.0	.0	*	.0		.3	
	TOT %	2.0	2.3	2.9	1.5	.4	.0	.5	1.2	.0	.0	10.7	
5<10	0-3	.4	.9	1.3	.6	.2	.2	.2	.4	.0	1.1	5.1	
	4-10	.7	.5	2.2	1.7	.5	.2	.6	.3	.0		6.8	
	11-21	.1	.2	.7	1.3	.1	.0	.3	.2	.0		2.9	
	22+	.2	.1	.2	.2	.0	.0	.0	*	.0		.8	
	TOT %	1.4	1.7	4.4	3.8	.8	.3	1.1	.9	.0	1.1	15.5	
10+	0-3	4.2	5.1	6.5	2.1	1.2	2.0	2.6	3.6	.0	7.4	34.5	
	4-10	2.2	3.6	7.4	4.9	2.2	1.8	1.5	2.0	.0		25.5	
	11-21	.7	1.0	2.3	3.5	.6	.2	.6	.2	.0		9.0	
	22+	.0	.2	.2	.3	.0	.2	.0	.0	.0		.8	
	TOT %	7.1	9.8	16.3	10.8	3.9	4.1	4.7	5.7	.0	7.4	69.8	
	TOT OBS												666
	TOT PCT	11.0	14.2	24.0	17.3	5.9	4.4	6.4	8.0	.0	9.3	100.0	

MARCH

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1856-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	5.9	.0	11.8	5.9	.0	.0	.0	.0	23.5	76.5	17
06&09	.0	.0	.0	15.8	15.8	5.3	5.3	.0	.0	.0	42.1	57.9	19
12&15	.0	.0	5.6	11.1	5.6	5.6	.0	.0	.0	.0	27.8	72.2	18
18&21	.0	.0	4.0	16.0	8.0	4.0	.0	.0	.0	.0	32.0	68.0	25
TOT	0	0	3	9	8	4	1	0	0	0	25	54	79
PCT	.0	.0	3.8	11.4	10.1	5.1	1.3	.0	.0	.0	31.6	68.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	10.5	89.5	19
06&09	3.0	.7	4.0	16.8	22.4	53.1	303
12&15	.0	.0	4.2	12.5	8.3	75.0	24
18&21	.3	.3	.6	5.5	10.4	82.9	328
TOT	10	3	15	72	106	468	674
PCT	1.5	.4	2.2	10.7	15.7	69.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	5.9	5.9	17.6	76.5	17
06&09	.0	.0	17.6	29.4	52.9	17
12&15	.0	6.3	25.0	6.3	68.8	16
18&21	.0	5.3	26.3	15.8	57.9	19
TOT	0	3	13	12	44	69
PCT	.0	4.3	18.8	17.4	63.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
90/94	.0	.0	.0	.2	.6	.2	.2	.0	7	1.1
85/89	.0	.0	.0	.0	.5	8.3	7.0	3.2	117	19.0
80/84	.0	.0	.0	.2	1.8	10.4	29.5	19.5	378	61.4
75/79	.0	.0	.0	.0	.0	.6	6.0	10.6	106	17.2
70/74	.0	.0	.0	.0	.0	.2	.0	1.0	7	1.1
TOTAL	0	0	0	3	18	121	263	211	616	100.0
PCT	.0	.0	.0	.5	2.9	19.6	42.7	34.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
.3	*	.3	.0	.0	.0	.2	.0	.0	.3
2.0	2.2	4.5	2.9	1.1	.7	1.1	1.9	.0	2.6
5.4	7.8	17.2	10.2	3.6	3.4	4.2	4.7	.0	4.7
3.1	4.0	3.4	2.5	.9	.6	.3	1.6	.0	.8
.1	.4	.2	.2	.1	.0	.2	.0	.0	.0
10.8	14.4	25.6	15.8	5.8	4.8	6.0	8.2	.0	8.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	93	92	90	84	81	81	81	84.4	23
06&09	90	89	87	82	77	74	72	82.1	295
12&15	84	83	83	81	75	63	63	80.3	28
18&21	97	91	87	82	77	73	72	81.9	338
TOT	97	90	87	82	77	73	63	82.0	684

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.9	11.8	52.9	17.6	11.8	77	17
06&09	.0	.0	1.5	20.0	41.1	37.4	86	265
12&15	.0	.0	5.0	15.0	60.0	20.0	85	20
18&21	.0	.6	3.4	17.6	44.2	34.2	85	319
TOT	0	3	18	121	265	214	86	621

MARCH

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1956-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.6	2	.0	.6
7/8	.0	.0	.0	.6	.0	.6	.0	4	.0	1.2
6	.0	.0	.0	.0	.3	.3	.0	2	.0	.6
5	.0	.0	.0	.0	1.2	.9	.0	7	.0	2.0
4	.0	.0	.0	.0	.6	.3	.0	3	.0	.9
3	.0	.0	.0	.6	2.0	.0	.0	9	.0	2.6
2	.0	.0	.0	1.7	1.7	.3	.0	13	.0	3.8
1	.0	.0	.3	3.5	3.2	.0	.0	24	.0	7.0
0	.0	.0	.6	8.1	2.6	.0	.0	39	.0	11.3
-1	.0	.0	.0	11.0	2.6	.0	.0	47	.0	13.7
-2	.0	.0	1.7	13.7	1.2	.0	.0	57	.0	16.6
-3	.0	.0	4.9	7.6	.3	.0	.0	44	.0	12.8
-4	.0	.0	6.7	3.2	.0	.0	.0	34	.0	9.9
-5	.0	.0	4.7	2.0	.0	.0	.0	23	.0	6.7
-6	.0	.0	2.3	.9	.0	.0	.0	11	.0	3.2
-7/-8	.0	1.2	1.7	1.2	.0	.0	.0	14	.0	4.1
-9/-10	.9	1.2	.9	.0	.0	.0	.0	10	.0	2.9
-11/-13	.0	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	3	9	82	186	54	9	2	344	0	344
PCT	.9	2.6	23.8	54.1	15.7	2.3	.6	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	1.5	.0	3.4	.0	.0	.0	4.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	1.5	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	2.0	3.4	1.5	.0	.0	8.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.5	2.0	.5	.0	.0	.0	2.9
3-4	.0	2.0	2.5	.0	.0	.0	4.4
5-6	.0	2.0	.0	2.5	.0	.0	4.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.9	2.9	2.5	.0	.0	11.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	2.0	9.3	.0	.0	.0	.0	11.3
3-4	.0	7.4	3.4	.0	.0	.0	10.8
5-6	.0	.0	.0	1.5	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	16.7	3.4	1.5	.0	.0	23.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.5	.0	.0	.0	.0	2.5
1-2	.0	10.3	.0	.0	.0	.0	10.3
3-4	.0	10.3	6.4	2.0	.0	.0	18.6
5-6	.0	.0	2.5	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	23.0	8.8	2.0	.0	.0	33.8

PERIOD: (OVER-ALL) 1968-1977

MARCH

AREA 0012 NEW HEBRIDES ISLANDS
16.5S 167.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	2.9	.0	.0	.0	4.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.9	.0	.0	.0	.0	3.9
3-4	.0	2.0	.0	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.9	.0	.0	.0	.0	5.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	2.0	.0	.0	.0	.0	2.0
3-4	.0	2.0	.0	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	.0	.0	.0	.0	5.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.0	.0	.0	.0	.5	
1-2	2.0	.0	.0	.0	.0	.0	2.0	
3-4	.0	.0	2.0	.0	.0	.0	2.0	
5-6	.0	.0	.0	.5	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.0	.5	2.0	.5	.0	.0	4.9	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.0	7.8	.0	.0	.0	.0	9.8	
1-2	5.9	27.5	3.9	.0	.0	.0	37.3	
3-4	.0	23.5	15.7	2.0	.0	.0	41.2	
5-6	.0	2.0	3.9	5.9	.0	.0	11.8	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	60.8	23.5	7.8	.0	.0	100.0	51

PERIOD: (OVER-ALL) 1952-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	13.6	25.8	10.6	3.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	3
6-7	.0	.0	4.5	7.6	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
8-9	.0	.0	1.5	1.5	3.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
10-11	.0	.0	1.5	3.0	.0	1.5	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
12-13	.0	.0	1.5	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
TOTAL	3	9	23	19	7	2	2	1	0	0	0	0	0	0	0	0	0	0	0	66	4
PCT	4.5	13.6	34.8	28.8	10.6	3.0	3.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1875-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.4S 167.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.8	3.8	.0	.0	.0	.0	.0	7.6	.0	1.9	.0	.0	.0		.0	90.5
NE	15.2	.0	.4	.0	.0	.0	.0	15.6	1.6	4.1	.0	.0	.0		.0	78.7
E	5.3	4.0	2.6	.0	.0	.0	.0	9.9	1.1	2.0	.0	.0	.7		.0	86.3
SE	8.6	3.3	.2	.0	.0	.0	.0	12.1	.4	.2	.0	.0	.7		.0	86.7
S	9.1	3.8	.0	.0	.0	.0	.0	12.9	.0	.0	2.2	.0	.0		.0	84.9
SW	10.0	2.9	2.9	.0	.0	.0	.0	15.7	.0	3.0	.0	.0	2.9		.0	77.9
W	9.0	.0	4.5	.0	.0	.0	.0	13.5	.0	1.9	.0	.0	.0		.0	84.5
NW	4.8	.0	.8	.0	.0	.0	.0	5.6	.0	3.2	.0	.0	.0		.0	91.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	3.0	.0	3.0	.0	.0	.0	.0	6.0	.0	3.0	.0	.0	1.5		.0	89.6
TOT PCT	7.6	1.9	1.6	.0	.0	.0	.0	11.1	.5	1.9	.2	.0	.7		.0	85.7
TOT OBS:	579															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	3.3	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0		.0	96.7
06&09	8.5	1.6	1.6	.0	.0	.0	.0	11.7	.4	2.8	.4	.0	.8		.0	83.8
12&15	7.7	3.8	.0	.0	.0	.0	.0	11.5	.0	11.5	.0	.0	.0		.0	76.9
18&21	7.7	1.7	1.7	.0	.0	.0	.0	11.2	.7	.3	.0	.0	.7		.0	87.1
TOT PCT	7.6	1.9	1.5	.0	.0	.0	.0	11.0	.5	1.9	.2	.0	.7		.0	85.7
TOT OBS:	589															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	2.4	.3	.0	.0	.2		4.9	7.1	3.6	.0	.0	6.2	.0	.0	.0	5.1
NE	4.5	4.9	.7	*	.0	.0		10.1	5.5	12.5	.0	13.6	10.2	4.5	.0	8.3	10.2
E	6.5	12.8	4.2	.8	.0	.0		24.2	7.7	33.0	.0	12.5	20.9	23.9	50.0	40.0	26.5
SE	3.9	13.8	6.5	.7	.0	.0		24.7	8.7	36.6	33.3	61.4	23.6	50.0	16.7	38.3	18.6
S	2.6	3.4	1.2	.3	.0	.0		7.5	7.2	3.6	.0	8.0	5.2	12.5	.0	6.7	9.8
SW	3.0	2.8	.2	.0	.0	.0		5.9	4.1	.0	.0	.0	7.4	4.5	.0	6.7	5.9
W	3.9	2.3	.6	.0	.0	.0		6.8	4.1	7.1	.0	.0	6.6	.0	.0	.0	8.7
NW	3.2	1.7	.2	.0	.0	.0		5.1	3.8	.0	33.3	.0	4.7	4.5	.0	.0	6.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8							10.8	.0	3.6	33.3	4.5	15.1	.0	33.3	.0	8.9
TOT OBS	251	274	85	11	0	1	622		6.2	28	3	22	258	22	3	15	271
TOT PCT	40.4	44.1	13.7	1.8	.0	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	1.0	.0	.0	.2		4.9	7.1	3.2	5.7	.0	4.8
NE	7.1	2.6	.4	.0	.0		10.1	5.5	11.3	10.4	4.0	10.1
E	12.6	9.0	2.5	.0	.0		24.2	7.7	29.8	20.3	27.0	27.2
SE	10.6	11.6	2.5	*	.0		24.7	8.7	36.3	26.6	46.0	19.7
S	4.8	2.2	.4	.1	.0		7.5	7.2	3.2	5.4	11.0	9.6
SW	5.0	1.0	.0	.0	.0		5.9	4.1	.0	6.8	4.0	5.9
W	5.9	.7	.2	.0	.0		6.8	4.1	6.5	6.1	.0	8.2
NW	4.2	.9	.0	.0	.0		5.1	3.8	3.2	4.4	4.0	6.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.8						10.8	.0	6.5	14.3	4.0	8.4
TOT OBS	403	180	37	1	1	622		6.2	91	280	25	286
TOT PCT	64.8	28.9	5.9	.2	.2		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1875-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.4S 167.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

	WIND SPEED (KNOTS)									
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.5	6.5	35.5	35.5	12.9	.0	3.2	14.7	100.0	31
06&09	14.3	31.4	42.1	11.1	1.1	.0	.0	5.3	100.0	280
12&15	4.0	.0	56.0	36.0	4.0	.0	.0	11.4	100.0	25
18&21	8.4	32.9	45.8	11.9	1.0	.0	.0	5.6	100.0	286
TOT	67	184	274	85	11	0	1	6.2		622
PCT	10.8	29.6	44.1	13.7	1.8	.0	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.3	2.8	5.3	2.5		5.8
E	0.3	8.8	11.6	2.5		4.6
SE	2.9	15.9	12.2	7.8		4.0
S	2.5	.0	2.2	3.4		5.7
SW	1.3	.0	.0	.0		2.0
W	1.3	.0	.0	1.3		5.0
NW	1.3	.0	.0	1.3		4.5
VAR	.0	.0	.0	.0		.0
CALM	1.3	2.5	.0	.0		2.3
TOT OBS	10	24	25	15	80	4.8
TOT PCT	20.0	30.0	31.3	18.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	7.2	
E	.0	.0	.0	4.1	3.4	3.8	.0	.0	.0	.0	17.8	
SE	1.2	.0	1.6	2.2	4.1	1.3	2.5	.0	.0	.0	29.1	
S	.0	.0	.9	1.3	1.3	.0	.0	.0	.0	.0	4.7	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
W	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.3	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	
TOT OBS	2	0	2	6	9	4	2	0	0	1	54	80
TOT PCT	2.5	.0	2.5	7.5	11.3	5.0	2.5	.0	.0	1.3	67.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

	VSBY (NM)							
CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >3500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >2000	2.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7
= OR >1000	6.1	8.5	8.5	8.5	8.5	8.5	8.5	8.5
= OR >600	13.4	19.5	19.5	19.5	19.5	19.5	19.5	19.5
= OR >300	15.9	26.8	26.8	26.8	26.8	26.8	26.8	26.8
= OR >150	18.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
= OR > 0	18.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
TOTAL	15	24	24	24	24	24	24	24

TOTAL NUMBER OF OBS: 82 PCT FREQ NH <5/8: 68.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.8	19.0	14.3	19.0	10.7	6.0	3.6	10.7	9.5	2.4	84

APRIL

PERIOD: (PRIMARY) 79-80,1977
(OVER-ALL) 1855-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.4S 167.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.0	.0	.2	.0	.0	.1	*	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.2	.0	.0	.1	*	.0	.0	.5	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.3	
2<5	PCP	.2	.2	.6	.4	.0	.2	.0	.0	.0	.2	1.7	
	NO PCP	.2	.7	1.4	1.3	.3	.3	.3	.2	.0	.2	4.8	
	TOT %	.3	.9	2.1	1.6	.3	.5	.3	.2	.0	.3	6.6	
5<10	PCP	.0	.6	.8	1.6	.5	.2	.3	.1	.0	.0	4.0	
	NO PCP	.6	2.9	4.6	4.4	.9	.6	1.8	1.1	.0	1.2	18.1	
	TOT %	.6	3.5	5.4	5.9	1.4	.8	2.0	1.2	.0	1.2	22.1	
10+	PCP	.0	.9	.9	.7	.5	.4	.3	.2	.0	.5	4.5	
	NO PCP	3.4	5.3	15.2	15.2	5.7	4.1	3.7	3.8	.0	9.5	65.8	
	TOT %	3.4	6.1	16.1	15.9	6.2	4.5	4.0	4.0	.0	10.0	70.3	
	TOT OBS												579
	TOT PCT	4.5	10.5	23.6	23.6	8.0	6.0	6.7	5.4	.0	11.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.2	.5	.0	.0	.3	.0	.0	.0	1.1	
	4-10	.2	*	1.0	.8	.0	.0	.3	*	.0		2.3	
	11-21	.2	.0	.1	*	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	*	1.3	1.3	.0	.0	.6	*	.0	.0	3.8	
1/2<1	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.2	.2	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.3	.0	.2	.3	*	.0		1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.3	.0	.2	.3	*	.0	.0	1.1	
2<5	0-3	.0	.3	.3	.2	.0	.3	.2	.2	.0	.3	1.8	
	4-10	.3	.5	1.4	1.3	.2	.2	.0	.0	.0		3.9	
	11-21	.0	.0	.2	.1	.0	.0	.2	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.8	2.0	1.6	.2	.5	.3	.2	.0	.3	6.2	
5<10	0-3	.1	1.6	1.7	.2	.5	.4	1.1	.7	.0	1.1	7.4	
	4-10	.6	1.7	2.5	3.6	.7	.4	.7	.5	.0		10.7	
	11-21	.0	.2	.7	1.4	.2	.0	.2	.0	.0		2.6	
	22+	.0	.0	.3	.4	.0	.0	.0	.0	.0		.7	
	TOT %	.7	3.4	5.3	5.6	1.3	.8	1.9	1.1	.0	1.1	21.3	
10+	0-3	1.8	2.7	4.4	2.9	2.0	2.3	2.3	2.4	.0	9.5	30.4	
	4-10	1.1	2.5	7.7	7.1	2.5	2.0	1.1	1.2	.0		25.3	
	11-21	.1	.6	3.0	4.8	1.1	.0	.3	.2	.0		10.2	
	22+	.2	*	.3	.3	.3	.0	.0	.0	.0		1.1	
	TOT %	3.2	5.8	15.4	15.2	5.9	4.3	3.8	3.8	.0	9.5	67.0	
	TOT OBS												609
	TOT PCT	4.9	10.1	24.3	24.0	7.6	5.9	7.0	5.2	.0	11.0	100.0	

APRIL

PERIOD: (PRIMARY) 1963-1977
(OVER-ALL) 1875-1977

AREA 0012 NEW HEBRIDES ISLANDS
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	10.3	6.9	10.3	.0	.0	.0	.0	27.6	72.4	29
06&09	5.0	.0	.0	.0	5.0	5.0	.0	.0	.0	5.0	20.0	80.0	20
12&15	.0	.0	10.0	.0	15.0	.0	.0	.0	.0	.0	25.0	75.0	20
18&21	13.3	.0	.0	20.0	20.0	.0	13.3	.0	.0	.0	66.7	33.3	15
TOT	3	0	2	6	9	4	2	0	0	1	27	57	84
PCT	3.6	.0	2.4	7.1	10.7	4.8	2.4	.0	.0	1.2	32.1	67.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	6.7	93.3	30
06&09	9.9	1.1	1.8	10.2	30.4	46.6	283
12&15	.0	.0	3.8	7.7	3.8	84.6	26
18&21	.3	.0	.3	3.1	15.7	80.4	286
TOT	29	3	7	40	134	412	925
PCT	4.6	.5	1.1	6.4	21.4	65.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	10.3	17.2	72.4	29
06&09	5.0	5.0	5.0	15.0	80.0	20
12&15	.0	10.0	15.0	15.0	70.0	20
18&21	7.7	7.7	30.8	38.5	30.8	13
TOT	2	4	11	16	55	82
PCT	2.4	4.9	13.4	19.5	67.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.2	.7	.4	.0	8	1.4
85/89	.0	.0	.0	.2	.5	5.1	5.6	1.8	73	13.2
80/84	.0	.0	.2	.5	3.2	14.3	30.5	16.2	360	65.0
75/79	.0	.0	.0	.0	.2	3.6	4.9	11.6	112	20.2
70/74	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	0	1	5	23	131	230	164	554	100.0
PCT	.0	.0	.2	.9	4.2	23.6	41.5	29.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.2	.1	.2	.3	*	.0	.0	.0	.4
.6	1.0	2.5	1.9	.7	.2	.3	1.7	.0	3.6
3.1	6.2	16.5	18.8	4.2	3.7	5.2	2.5	.0	4.7
1.2	1.7	4.5	4.0	1.7	2.3	1.5	1.5	.0	1.8
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
5.0	9.2	23.7	24.9	7.1	6.3	7.7	5.7	.0	10.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	93	92	88	82	77	74	74	82.5	32
06&09	92	89	86	82	78	75	74	81.6	273
12&15	85	84	92	80	77	67	67	79.8	25
18&21	93	90	86	81	77	75	75	81.3	293
TOT	93	90	86	81	77	75	67	81.5	623

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	20.8	37.5	41.7	.0	75	24
06&09	.0	.4	4.4	19.9	45.8	29.5	85	251
12&15	.0	5.9	11.8	23.5	47.1	11.8	79	17
18&21	.0	1.4	2.2	24.9	39.0	32.5	85	277
TOT	0	6	24	132	241	166	84	569

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1875-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
9/10	.0	.0	.0	.0	.3	.0	.0	.3	2	.0	.7
7/8	.0	.0	.0	.0	.0	.7	.7	.0	4	.0	1.3
6	.0	.0	.0	.0	.0	.7	.7	.0	4	.0	1.3
5	.0	.0	.0	.0	.3	1.7	.0	.0	6	.0	2.0
4	.0	.0	.0	.0	.7	.7	.0	.0	4	.0	1.3
3	.0	.0	.0	.0	1.3	2.3	.0	.0	11	.0	3.7
2	.0	.0	.0	1.0	3.3	1.3	.0	.0	17	.0	5.7
1	.0	.0	.0	1.3	4.3	2.3	.0	.0	24	.3	7.6
0	.0	.0	.0	2.3	11.3	.7	.0	.0	43	.0	14.3
-1	.0	.0	.0	2.3	9.6	.0	.0	.0	36	.0	12.0
-2	.0	.0	.0	4.7	9.0	.3	.0	.0	42	.0	14.0
-3	.0	.0	.3	7.0	5.0	.3	.0	.0	38	.0	12.6
-4	.0	.0	.0	7.0	2.7	.0	.0	.0	29	.0	9.6
-5	.0	.0	.0	6.3	1.0	.0	.0	.0	22	.0	7.3
-6	.0	.0	1.3	2.0	.0	.0	.0	.0	10	.0	3.3
-7/-8	.0	.0	1.0	.3	.0	.0	.0	.0	4	.0	1.3
-9/-10	.0	.0	.0	.7	.3	.0	.0	.0	3	.0	1.0
-11/-13	.3	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1		8		148		5			1	300
		0		105		33		1	301		
PCT	.3	.0	2.7	34.9	49.2	11.0	1.6	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1968-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.0	.0	.0	.0	2.8
3-4	.0	1.3	1.3	.3	.0	.0	2.8
5-6	.0	1.3	2.8	.0	.0	.0	4.1
7	.0	1.3	.0	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.6	4.1	.3	.0	.0	11.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.3	.0	.0	.0	.0	2.2
1-2	.0	3.5	1.3	.0	.0	.0	4.7
3-4	.0	4.4	4.7	1.9	.0	.0	11.1
5-6	.0	.9	5.4	.9	.0	.0	7.3
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	1.3	.0	.0	.0	1.3
10-11	.0	.0	1.9	.0	.0	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	10.1	15.5	2.8	.0	.0	29.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3
1-2	.0	16.8	1.3	.0	.0	.0	18.0
3-4	.0	1.9	7.9	1.6	.0	.0	11.4
5-6	.0	4.1	5.7	.6	.0	.0	10.4
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	1.3	.0	.0	.0	1.3
10-11	.0	.0	1.9	1.3	.0	.0	3.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	22.8	18.4	3.5	.0	.0	44.9

PERIOD: (OVER-ALL) 1959-1977

APRIL

TABLE 1a (CONT)

AREA 0012 NEW HEBRIDES ISLANDS
16.4S 167.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.3	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	1.3
5-6	.0	1.3	.0	2.2	.0	.0	3.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	.0	2.2	.0	.0	7.0	.0	1.3	.0	.0	.0	.0	1.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	1.3	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	1.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	.0	1.3	.0	.0	.0	2.5	.0	1.3	.0	.0	.0	.0	1.3	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	1.3	.0	.0	.0	.0	7.5	
1-2	.0	20.3	3.8	.0	.0	.0	30.0	
3-4	.0	10.0	13.8	3.8	.0	.0	27.5	
5-6	.0	7.5	13.8	3.8	.0	.0	25.0	
7	.0	1.3	1.3	.0	.0	.0	2.5	
8-9	.0	.0	2.5	.0	.0	.0	2.5	
10-11	.0	.0	3.8	1.3	.0	.0	5.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	40.3	38.8	8.8	.0	.0	100.0	80

PERIOD: (OVER-ALL) 1959-1977

TABLE 1g

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	11.8	12.9	4.7	3.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	3
6-7	.0	1.2	4.7	12.9	7.1	3.5	7.1	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	6
8-9	.0	1.2	1.2	4.7	5.9	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	6
10-11	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
12-13	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	2.4	.0	.0	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
TOTAL	3	12	18	20	15	8	8	1	0	0	0	0	0	0	0	0	0	0	0	85	5
PCT	3.5	14.1	21.2	23.5	17.6	9.4	9.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1875-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.8S 167.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	5.9	3.2	2.2	.0	.0	.0	.0	11.3	.0	4.3	.0	.0	.0	.0	.0	86.6
E	5.6	2.2	1.8	.0	.0	.0	.0	9.6	.8	.5	.0	.0	.5	.0	.0	88.6
SE	4.3	.0	.7	.0	.0	.0	.0	4.9	1.8	.0	.3	.0	.0	.0	.0	92.7
S	3.4	3.4	1.9	.0	.0	.0	.0	9.2	1.9	.0	.0	.0	.0	.0	.0	88.9
SW	7.5	.0	.0	.0	.0	.0	.0	7.5	.0	.0	.0	.0	.0	.0	.0	92.5
W	.0	.0	.0	.0	.0	.0	.0	.0	4.7	.0	.0	.0	3.5	.0	.0	91.9
NW	15.4	.0	.0	.0	.0	.0	.0	15.4	.0	.0	.0	.0	1.9	.0	.0	82.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1	.0	.0	.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0	93.9
TOT PCT	5.7	1.3	1.1	.0	.0	.0	.0	7.5	1.1	.5	.2	.0	.3	.0	.0	90.5
TOT OBS:	610															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	8.5	.0	.0	.0	.0	.0	.0	8.5	4.3	.0	2.1	.0	.0	.0	.0	85.1
06&09	7.7	1.1	1.1	.0	.0	.0	.0	10.0	.4	.8	.0	.0	.0	.0	.0	89.3
12&15	.0	.0	.0	.0	.0	.0	.0	.0	8.6	2.9	.0	.0	.0	.0	.0	88.6
18&21	3.5	2.1	1.4	.0	.0	.0	.0	7.1	.4	.0	.0	.0	.7	.0	.0	91.9
TOT PCT	5.4	1.4	1.1	.0	.0	.0	.0	8.0	1.1	.5	.2	.0	.3	.0	.0	90.1
TOT OBS:	625															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	.9	.5	.0	.0	.0		1.9	7.3	.0	.0	3.1	2.5	.0	33.3	3.1	1.1
NE	3.1	3.4	1.1	.2	.0	.0		7.8	6.2	6.8	.0	.0	9.2	9.7	.0	1.0	8.0
E	9.0	16.3	8.1	.9	.0	.0		34.3	8.1	22.2	58.3	35.9	31.2	26.6	.0	33.3	40.8
SE	4.2	12.6	12.0	1.3	.0	.0		30.1	10.2	45.5	8.3	40.6	29.9	50.8	66.7	54.2	21.6
S	2.2	4.4	1.8	.2	.0	.0		8.6	7.4	14.2	33.3	17.2	8.0	5.6	.0	.0	8.2
SW	2.4	1.1	.8	.0	.0	.0		4.3	5.5	6.8	.0	.0	4.6	.8	.0	1.0	4.9
W	1.9	1.0	.4	.2	.0	.0		3.5	5.3	.0	.0	.0	2.5	.0	.0	7.3	5.9
NW	1.2	.7	.1	.0	.0	.0		2.0	4.4	.0	.0	.0	1.6	3.2	.0	.0	3.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.6							7.6	.0	4.5	.0	3.1	10.5	3.2	.0	.0	7.2
TOT OBS	212	266	163	17	0	0	658		7.6	44	3	32	256	31	3	24	265
TOT PCT	32.2	40.4	24.8	2.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.0	.7	.1	.0	.0		1.9	7.3	.0	2.6	2.9	1.3
NE	5.4	1.9	.5	.0	.0		7.8	6.2	6.4	8.2	8.8	7.4
E	17.7	13.0	3.2	.4	.0		34.3	8.1	24.5	31.7	24.3	39.7
SE	9.9	15.4	4.6	.2	.0		30.1	10.2	43.1	31.1	52.2	24.3
S	4.9	3.2	.5	.0	.0		8.6	7.4	15.4	9.0	5.1	7.5
SW	3.0	.9	.3	.0	.0		4.3	5.5	6.4	4.1	.7	4.6
W	2.7	.6	.2	.0	.0		3.5	5.3	.0	2.3	.0	5.7
NW	1.4	.5	*	.0	.0		2.0	4.4	.0	1.4	2.9	2.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.6						7.6	.0	4.3	9.7	2.9	6.6
TOT OBS	353	239	62	4	0	658		7.6	47	288	34	289
TOT PCT	53.6	36.3	9.4	.6	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1875-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.8S 167.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.3	.0	36.2	55.3	4.3	.0	.0	12.0	100.0	47
06&09	9.7	25.0	40.6	21.2	3.5	.0	.0	7.2	100.0	288
12&15	2.9	2.9	38.2	55.9	.0	.0	.0	11.3	100.0	34
18&21	6.6	30.8	41.2	19.7	1.7	.0	.0	6.8	100.0	289
TOT	50	162	266	193	17	0	0	7.6		656
PCT	7.6	24.6	40.4	29.8	2.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.9	.0	.0		3.0
NE	.9	.9	2.6	.9		5.6
E	2.4	8.6	11.2	6.3		5.1
SE	7.1	10.3	22.4	6.7		5.0
S	2.4	.9	6.9	.9		4.9
SW	.2	.9	.2	.9		5.1
W	.0	.9	.6	.0		4.8
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.9	1.7	.9		5.5
TOT OBS	10	28	53	19	116	5.1
TOT PCT	13.8	24.1	45.7	16.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
NE	.0	.0	.0	.0	1.7	1.7	.0	.0	.0	.0	1.7	
E	.0	.0	.0	4.1	2.4	2.4	2.4	.0	.6	.0	16.5	
SE	.0	.0	.0	3.2	7.1	6.3	1.9	.0	.2	.0	27.8	
S	.0	.0	.0	2.2	1.7	.0	1.7	.0	.0	.0	5.4	
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.9	
W	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.9	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.9	
TOT OBS	0	0	0	12	15	12	10	0	1	0	66	116
TOT PCT	.0	.0	.0	10.3	12.9	10.3	8.6	.0	.9	.0	56.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
= OR >3500	7.3	9.8	9.8	9.8	9.8	9.8	9.8	9.8
= OR >2000	13.0	19.5	19.5	19.5	19.5	19.5	19.5	19.5
= OR >1000	21.1	30.9	31.7	31.7	31.7	31.7	31.7	31.7
= OR >600	27.6	40.7	41.5	41.5	41.5	41.5	42.3	42.3
= OR >300	27.6	40.7	41.5	41.5	41.5	41.5	42.3	42.3
= OR >150	27.6	40.7	41.5	41.5	41.5	41.5	42.3	42.3
= OR > 0	27.6	40.7	41.5	41.5	41.5	41.5	42.3	42.3
TOTAL	34	50	51	51	51	51	52	52

TOTAL NUMBER OF OBS: 123

PCT FREQ NH <5/8: 57.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.0	11.1	14.1	17.8	10.4	10.4	11.9	5.9	15.6 .0	135

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1875-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.8S 167.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.3	*	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	*	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.2	.0	.0	.2	.0	.2	.5	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.2	.1	.1	.2	.0	.2	.7	
2<5	PCP	.0	*	.8	.2	.3	.0	.0	.0	.0	.0	1.3	
	NO PCP	.2	.3	1.2	1.8	.2	.2	.3	.2	.0	.0	4.4	
	TOT %	.2	.4	2.0	2.0	.5	.2	.3	.2	.0	.0	5.7	
5<10	PCP	.0	.8	1.6	.5	.3	.3	.0	.2	.0	.0	3.8	
	NO PCP	.4	1.1	5.1	7.0	2.1	.9	.7	.4	.0	1.3	19.0	
	TOT %	.4	2.0	6.7	7.5	2.4	1.3	.7	.5	.0	1.3	22.8	
10+	PCP	.0	.0	.6	.7	.0	.0	.0	.0	.0	.3	1.6	
	NO PCP	1.4	5.3	24.5	19.5	5.4	2.8	2.4	1.3	.0	6.2	68.9	
	TOT %	1.4	5.3	25.2	20.1	5.4	2.8	2.4	1.3	.0	6.6	70.5	
	TOT OBS												610
	TOT PCT	1.9	7.6	34.1	29.8	8.5	4.4	3.5	2.1	.0	8.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.1	*	.2	.2	.0	.0	.0	.0	.6	
	4-10	.1	.1	.7	.7	.3	.0	.1	*	.0		2.0	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.1	.2	.9	.9	.5	.2	.1	*	.0	.0	3.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.3	.5	
	4-10	.0	.2	.1	*	.2	.1	.1	.2	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.3	*	.2	.1	.1	.2	.0	.3	1.3	
2<5	0-3	.0	.2	.5	.3	.1	.1	.3	.0	.0	.0	1.4	
	4-10	.2	*	.9	1.0	.4	.0	.0	.2	.0		2.7	
	11-21	.0	.0	.5	.5	.0	.2	.0	.0	.0		1.1	
	22+	.0	.2	.0	.2	.0	.0	.0	.0	.0		.3	
	TOT %	.2	.4	1.9	1.9	.5	.2	.3	.2	.0	.0	5.5	
5<10	0-3	.0	.5	1.6	1.0	.6	.7	.3	.3	.0	1.3	6.3	
	4-10	.2	.8	3.1	2.5	1.1	.3	.2	.2	.0		8.3	
	11-21	.1	.5	1.4	3.5	.5	.2	.1	*	.0		6.4	
	22+	.0	.0	.3	.3	.2	.0	.2	.0	.0		.9	
	TOT %	.4	1.9	6.4	7.3	2.3	1.2	.7	.5	.0	1.3	21.9	
10+	0-3	.5	2.2	6.9	2.9	1.3	1.4	1.3	.9	.0	6.3	23.7	
	4-10	.4	2.3	11.4	8.4	2.6	.7	.7	.2	.0		26.8	
	11-21	.4	.6	5.6	8.0	1.3	.5	.3	*	.0		16.6	
	22+	.0	.0	.4	.8	.0	.0	.0	.0	.0		1.3	
	TOT %	1.3	5.1	24.3	20.1	5.1	2.7	2.3	1.2	.0	6.3	68.3	
	TOT OBS												638
	TOT PCT	1.9	7.7	33.8	30.3	8.6	4.3	3.5	2.1	.0	7.8	100.0	

MAY

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1875-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.5S 167.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	8.7	10.9	17.4	13.0	.0	.0	.0	50.0	50.0	46
06&09	.0	.0	.0	17.1	11.4	8.6	5.7	.0	.0	.0	42.9	57.1	35
12&15	.0	.0	.0	.0	14.8	3.7	11.1	.0	.0	.0	29.6	70.4	27
18&21	.0	.0	.0	15.0	10.0	.0	.0	.0	5.0	.0	30.0	70.0	20
TOT	0	0	0	13	15	12	11	0	1	0	52	76	128
PCT	.0	.0	.0	10.2	11.7	9.4	8.6	.0	.8	.0	40.6	59.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	17.0	83.0	47
06&09	8.2	.3	2.4	9.6	33.1	46.4	293
12&15	.0	.0	.0	.0	8.6	91.4	35
18&21	.0	.4	.4	3.5	12.7	83.1	284
TOT	24	2	8	38	144	443	659
PCT	3.6	.3	1.2	5.8	21.9	67.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	9.1	43.2	47.7	44
06&09	.0	2.9	20.6	23.5	55.9	34
12&15	.0	.0	.0	30.8	69.2	26
18&21	.0	.0	15.8	15.8	68.4	19
TOT	0	1	14	38	71	123
PCT	.0	.8	11.4	30.9	57.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
100/104	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
90/94	.0	.0	.0	.2	.2	.0	.2	.0	3	.5
85/89	.0	.0	.2	.4	.9	2.6	1.6	.5	34	6.2
80/84	.0	.0	.4	.5	4.0	17.4	15.9	8.8	257	47.0
75/79	.0	.0	.0	.9	2.6	13.0	13.3	14.6	243	44.4
70/74	.0	.0	.0	.0	.0	.2	.5	.9	9	1.6
TOTAL	0	0	3	12	42	181	173	136	547	100.0
PCT	.0	.0	.5	2.2	7.7	33.1	31.6	24.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	*	.0	.0	.0	.0
.0	.0	.2	.0	.1	.2	.0	.0	.0	.0
.1	.6	1.2	1.6	.5	.2	.2	.2	.0	1.6
.6	4.2	14.9	14.5	3.4	2.5	2.1	.6	.0	4.2
.9	2.2	18.5	12.2	3.7	1.2	1.6	1.6	.0	2.4
.0	.2	.4	.9	.2	.0	.0	.0	.0	.0
1.6	7.2	35.1	29.2	8.1	4.1	4.0	2.4	.0	8.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	94	93	87	81	77	75	75	81.3	46
06&09	91	88	85	80	75	73	73	79.7	278
12&15	82	81	81	79	74	73	73	78.5	35
18&21	100	88	85	79	75	73	64	79.6	294
TOT	100	89	85	80	75	73	64	79.7	653

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-89	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	25.8	29.0	35.5	9.7	77	31
06&09	.0	1.7	6.6	35.7	30.3	25.7	82	241
12&15	.0	7.4	11.1	37.0	40.7	3.7	75	27
18&21	.0	3.4	6.1	30.0	31.6	28.9	82	263
TOT	0	15	43	184	178	142	82	562

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1875-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.7
9/10	.0	.0	.0	.0	.3	.0	.7	.7	.0	5	.0	1.7
8	.0	.0	.0	.0	.3	.0	.0	.0	.0	1	.0	.3
7	.0	.0	.0	.0	.0	.0	.7	.0	.0	2	.0	.7
6	.0	.0	.0	.0	.0	.3	1.0	.0	.0	4	.0	1.4
5	.0	.0	.0	.0	.7	1.4	1.4	.0	.0	10	.0	3.4
4	.0	.0	.0	.0	1.7	3.8	.0	.0	.0	16	.0	5.5
3	.0	.0	.0	.3	7.5	5.5	.0	.0	.0	39	.0	13.3
2	.0	.0	.0	.0	8.2	6.8	.7	.0	.0	46	.0	15.7
1	.0	.0	.0	1.7	10.6	8.2	.3	.0	.0	61	.3	20.5
0	.0	.0	.0	1.0	8.2	1.7	.0	.0	.0	32	.0	10.9
-1	.0	.0	.0	3.1	8.2	.3	.0	.0	.0	34	.0	11.6
-2	.0	.0	.0	1.4	6.1	1.0	.0	.3	.0	25	.0	8.5
-3	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	6	.0	2.0
-4/-5	.0	.0	.0	1.0	.7	.3	.0	.0	.0	6	.0	2.0
-6/-10	.0	.0	.0	.7	.0	.0	.0	.0	.0	2	.0	.7
-11/-13	.3	.0	.0	.3	.0	.0	.0	.0	.0	2	.0	.6
TOTAL	1	0	0	31	157	86	14	3	1	293	1	292
PCT	.3	.0	.0	10.6	53.6	29.4	4.8	1.0	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1964-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.9	.0	.0	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
+0+ PCT	.9	.0	.0	.0	.0	.0	.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.9	.0	.0	.0	1.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.9	.9	.0	.0	.0	1.8
7	.0	.0	.9	.9	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
+0+ PCT	.0	1.8	2.7	.9	.0	.0	5.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	2.3	.0	.0	.0	3.2
1-2	.0	7.9	4.5	.0	.0	.0	12.4
3-4	.0	3.6	5.0	.0	.0	.0	8.6
5-6	.0	.0	1.8	.7	.0	.0	2.5
7	.0	.0	.7	.9	.0	.0	1.6
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.9	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
+0+ PCT	.0	12.4	14.9	2.5	.0	.0	29.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.5	.0	.0	.0	.5
1-2	.0	9.5	4.7	.0	.0	.0	14.2
3-4	.0	4.5	13.3	.0	.0	.0	17.8
5-6	.0	.0	6.3	1.1	.0	.0	7.4
7	.0	.0	6.5	1.8	.0	.0	8.3
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
+0+ PCT	.0	14.0	31.8	2.9	.0	.0	48.6

PERIOD: (OVER-ALL) 1963-1977

MAY

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16.8S 167.6E

TABLE 1a (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.7	3.4	1.4	.0	.0	.0	5.6	.2	.0	.0	.0	.0	.0	.2
3-4	.0	.9	1.6	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.2	3.8	.9	.0	.0	10.6	.2	.0	.9	.0	.0	.0	1.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.2	1.7	2.6	.0	.0	.0	9.5	
1-2	.9	21.6	11.2	.0	.0	.0	33.6	
3-4	.9	8.6	19.8	.0	.0	.0	29.3	
5-6	.0	.9	9.5	1.7	.0	.0	12.1	
7	.0	.0	7.8	4.3	.0	.0	12.1	
8-9	.0	.0	.9	.0	.0	.0	.9	
10-11	.0	.0	.9	.9	.0	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.9	.0	.0	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.9	33.6	52.6	6.9	.0	.0	100.0	116

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	12.2	13.0	11.4	6.5	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	4
6-7	.0	.0	2.4	9.8	5.7	.8	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	7
8-9	.0	.8	.8	5.7	4.1	2.4	.8	.0	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	8
10-11	.0	.0	.8	1.6	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
12-13	.0	.0	.8	.0	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
>13	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	3.3	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	7	7
TOTAL	5	16	22	36	23	8	4	3	4	1	0	0	0	1	0	0	0	0	0	123	6
PCT	4.1	13.0	17.9	29.3	18.7	6.5	3.3	2.4	3.3	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1890-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.8S 167.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	2.0	.0	.0	.0	.0	.0	92.9
E	3.4	1.2	2.2	.0	.0	.0	.0	6.9	2.2	.0	1.2	.0	1.1	.0	.0	88.6
SE	2.9	.7	1.8	.0	.0	.0	.0	5.4	.5	.0	.7	.0	3.1	.0	.0	90.3
S	3.2	3.6	.0	.0	.0	.0	.0	6.3	2.4	.0	.0	.0	.0	.0	.0	91.3
SW	.0	1.6	.0	.0	.0	.0	.0	1.6	.0	6.4	.0	.0	.0	.0	.0	92.2
W	.0	5.1	6.8	.0	.0	.0	.0	11.9	.0	.0	.0	.0	.0	.0	.0	88.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	3.0	1.5	.0	.0	.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	94.0
TOT PCT	3.0	1.4	1.6	.0	.0	.0	.0	6.0	1.0	.4	.6	.0	1.2	.0	.0	91.1
TOT OBS:	503															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00-03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	95.5
06-09	3.7	1.8	.9	.0	.0	.0	.0	6.4	.9	.9	.5	.0	1.4	.0	.0	90.4
12-15	5.9	2.9	.0	.0	.0	.0	.0	8.8	.0	.0	.0	.0	2.9	.0	.0	88.2
18-21	2.2	.9	2.6	.0	.0	.0	.0	5.6	1.3	.0	.9	.0	.4	.0	.0	91.8
TOT PCT	3.0	1.4	1.6	.0	.0	.0	.0	5.9	1.0	.4	.6	.0	1.2	.0	.0	91.1
TOT OBS:	506															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	1.5	.0	.0	.0	.0		2.4	4.9	.0	.0	.0	2.8	.0	.0	.0	3.3
NE	2.8	4.3	1.7	.2	.0	.0		9.4	6.7	.0	.0	7.0	11.7	2.8	.0	15.2	9.0
E	6.9	14.0	8.5	1.3	.2	.0		30.9	9.1	26.0	.0	40.6	28.8	36.8	.0	20.5	32.9
SE	3.8	12.6	10.8	1.4	.2	.0		28.7	10.4	61.5	25.0	34.4	24.3	55.6	100.0	44.6	21.9
S	1.4	2.0	3.0	.4	.0	.0		6.8	10.6	4.2	75.0	8.6	8.6	2.1	.0	8.9	5.4
SW	1.1	1.8	.2	*	.0	.0		3.1	5.5	8.3	.0	3.1	4.1	.7	.0	.0	2.4
W	.8	2.0	.4	.0	.0	.0		3.2	6.1	.0	.0	.0	1.4	2.1	.0	2.7	6.1
NW	1.8	.3	.4	.0	.0	.0		2.5	3.8	.0	.0	3.1	2.3	.0	.0	4.5	3.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.9							12.9	.0	.0	.0	3.1	16.1	.0	.0	3.6	16.0
TOT OBS	181	218	139	19	2	0	559		7.7	24	1	32	218	36	1	28	219
TOT PCT	32.4	39.0	24.9	3.4	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	.6	.0	.0	.0		2.4	4.9	.0	2.4	.0	2.9
NE	6.5	2.2	.8	.0	.0		9.4	6.7	.0	11.1	2.7	9.7
E	13.6	12.9	4.2	.3	.0		30.9	9.1	25.0	30.3	35.8	31.5
SE	11.1	11.9	5.5	*	.2		28.7	10.4	50.0	25.6	56.8	24.5
S	2.7	2.7	1.3	.1	.0		6.8	10.6	7.0	8.6	2.0	5.8
SW	2.4	.6	.1	*	.0		3.1	5.5	8.0	4.0	.7	2.1
W	2.3	.7	.2	.0	.0		3.2	6.1	.0	1.2	2.0	5.7
NW	2.1	.4	.0	.0	.0		2.5	3.8	.0	2.4	.0	3.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.9						12.9	.0	.0	14.4	.0	14.6
TOT OBS	309	179	67	3	1	559		7.7	25	230	37	247
TOT PCT	55.3	32.0	12.0	.5	.2		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1942-1977
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.0	36.0	52.0	12.0	.0	.0	13.6	100.0	25
06&09	14.4	20.4	36.8	26.0	2.4	.0	.0	7.3	100.0	250
12&15	.0	5.4	40.5	45.9	5.4	2.7	.0	12.8	100.0	37
18&21	14.6	22.3	41.3	17.8	3.2	.4	.0	6.8	100.0	247
TOT	72	109	218	139	19	2	0	7.7		559
PCT	12.9	19.5	39.0	24.9	3.4	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	3.0	.0	1.3	1.0		4.0
E	2.8	6.8	8.8	12.9		6.0
SE	7.6	14.4	20.7	10.4		4.9
S	.8	.0	2.5	1.0		6.0
SW	.0	.0	1.0	1.0		6.5
W	.0	.0	.0	.0		.0
NW	.0	1.0	1.0	.0		5.0
VAR	.0	.0	.0	.0		.0
CALM	2.0	.0	.0	.0		1.5
TOT OBS	16	22	35	26	99	5.2
TOT PCT	16.2	22.2	35.4	26.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	4.3	
.0	.0	.8	2.8	9.3	1.0	.8	.8	.0	.0	15.9	
.0	.0	1.3	7.6	7.1	3.0	.3	.3	.0	.0	39.6	
.0	.0	.0	1.8	.8	.0	1.0	.0	.0	.0	.8	
.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
0	0	2	12	18	4	3	1	0	0	59	99
.0	.0	2.0	13.1	18.2	4.0	3.0	1.0	.0	.0	59.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
* OR >2000	5.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
* OR >1000	16.5	24.7	26.8	26.8	26.8	26.8	26.8	26.8
* OR >600	23.7	33.0	38.1	38.1	38.1	38.1	38.1	38.1
* OR >300	24.7	34.0	40.2	40.2	40.2	40.2	40.2	40.2
* OR >150	24.7	34.0	40.2	40.2	40.2	40.2	40.2	40.2
* OR > 0	24.7	34.0	40.2	40.2	40.2	40.2	40.2	40.2
TOTAL	24	33	39	39	39	39	39	39

TOTAL NUMBER OF OBS: 97 PCT FREQ NH <5/8: 59.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.7	12.7	16.1	21.2	7.6	9.3	8.5	7.6	15.3 .0	118

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	.6	
1<2	PCP	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.2	1.8	2.2	.3	*	.1	.0	.0	.2	5.0	
	TOT %	.0	.2	2.0	2.2	.3	*	.1	.0	.0	.2	5.2	
5<10	PCP	.0	.4	.8	.6	.2	.0	.0	.0	.0	.4	2.4	
	NO PCP	1.1	3.8	6.7	9.5	3.3	1.5	1.1	.2	.0	6.0	33.2	
	TOT %	1.1	4.2	7.5	10.1	3.5	1.5	1.1	.2	.0	6.4	35.6	
10+	PCP	.0	.2	.6	.6	.2	*	.3	.0	.0	.4	2.4	
	NO PCP	1.1	5.1	20.8	14.3	2.2	1.6	1.3	2.5	.0	6.4	55.3	
	TOT %	1.1	5.3	21.4	14.9	2.4	1.6	1.6	2.8	.0	6.8	57.7	
	TOT OBS												503
	TOT PCT	2.2	9.8	31.9	27.6	6.3	3.2	2.9	2.8	.0	13.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.1	*	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	*	.5	.4	.2	.0	.0	.0	.0		1.1	
	11-21	.0	.0	.4	.6	.1	.0	.0	.0	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	1.0	1.0	.3	.0	.0	.0	.0	.0	2.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.2	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.6	.2	.0	.0	.0	.0	.0	.0	.8	
1<2	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.2	.0	.0	.2	.2	.0	.0	.0	.0		.6	
	11-21	.0	.1	.1	.2	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.2	.0	.2	.0	.0	.0	.0		.4	
	TOT %	.2	.3	.3	.4	.4	.0	.0	.0	.0	.0	1.5	
2<5	0-3	.0	.0	.2	.4	.0	.0	.0	.0	.0	.2	.8	
	4-10	.0	.2	.7	.6	.0	*	.1	.0	.0		1.7	
	11-21	.0	.0	.8	1.0	.3	.0	.0	.0	.0		2.1	
	22+	.0	.0	.2	.4	.0	.0	.0	.0	.0		.6	
	TOT %	.0	.2	1.9	2.3	.3	*	.1	.0	.0	.2	5.1	
5<10	0-3	.4	1.0	2.2	2.0	.9	.6	.2	.0	.0	6.0	13.2	
	4-10	.7	1.9	2.4	4.0	.7	.6	.9	.2	.0		11.3	
	11-21	.0	.9	2.2	3.5	1.5	.2	.0	.0	.0		8.3	
	22+	.0	.2	.3	.1	.3	*	.0	.0	.0		.9	
	TOT %	1.0	4.0	7.1	9.6	3.4	1.4	1.1	.2	.0	6.0	33.8	
10+	0-3	.6	1.4	4.8	1.4	.5	.5	.7	1.9	.0	6.4	18.1	
	4-10	.7	2.9	9.9	7.4	1.0	1.1	.7	.1	.0		23.8	
	11-21	.0	.7	4.8	5.0	1.0	.0	.4	.4	.0		12.3	
	22+	.0	.0	.9	1.0	.0	.0	.0	.0	.0		1.9	
	TOT %	1.3	5.0	20.4	14.7	2.5	1.7	1.7	2.4	.0	6.4	56.1	
	TOT OBS												529
	TOT PCT	2.5	9.7	31.3	28.2	6.9	3.1	3.0	2.6	.0	12.7	100.0	

JUNE

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1890-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.8S 167.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	4.8	23.8	9.5	9.5	4.8	.0	.0	.0	52.4	47.6	21
06&09	.0	.0	.0	3.2	16.1	3.2	6.5	3.2	.0	.0	32.3	67.7	31
12&15	.0	.0	.0	11.1	25.9	3.7	.0	.0	.0	.0	40.7	59.3	27
18&21	.0	.0	3.2	9.7	12.9	.0	.0	.0	.0	.0	25.8	74.2	31
TOT	0	0	2	12	18	4	3	1	0	0	40	70	110
PCT	.0	.0	1.8	10.9	16.4	3.6	2.7	.9	.0	.0	36.4	63.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	9.1	18.2	72.7	22
06&09	5.8	.8	2.5	6.2	41.9	42.7	241
12&15	.0	.0	2.9	2.9	29.4	64.7	34
18&21	.0	.9	.4	3.8	28.1	66.8	235
TOT	14	4	8	27	181	298	332
PCT	2.6	.8	1.5	5.1	34.0	56.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	5.3	26.3	26.3	47.4	19
06&09	.0	.0	6.5	25.8	67.7	31
12&15	.0	.0	11.5	30.8	57.7	26
18&21	.0	4.8	23.8	14.3	61.9	21
TOT	0	2	15	24	58	97
PCT	.0	2.1	15.5	24.7	59.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
85/89	.0	.0	.0	.0	.0	1.7	1.1	1.3	19	4.1
80/84	.0	.0	.0	.0	1.1	10.7	12.9	8.3	151	33.0
75/79	.0	.0	.0	.0	3.3	14.0	16.6	20.1	247	53.9
70/74	.0	.0	.0	.4	1.3	.7	2.6	3.5	39	8.5
65/69	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	0	2	26	125	152	153	458	100.0
PCT	.0	.0	.0	.4	5.7	27.3	33.2	33.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
.0	.2	.3	.8	.2	.0	.0	.4	.0	2.2
1.3	4.2	9.8	8.4	.9	1.3	1.5	1.6	.0	3.9
.4	4.4	21.1	18.0	3.8	1.3	1.1	.9	.0	2.8
.0	.9	1.9	2.9	1.4	.6	.2	.1	.0	.7
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
1.7	9.7	33.1	30.1	6.6	3.2	2.8	3.1	.0	9.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	87	87	80	75	72	72	80.1	26
06&09	90	89	84	79	73	71	71	78.7	234
12&15	82	81	81	77	75	71	71	77.7	36
18&21	86	85	83	78	72	70	67	77.9	247
TOT	90	87	84	78	73	70	67	78.3	543

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	10.5	36.8	47.4	5.3	79	19
06&09	.0	.5	7.1	30.6	32.7	29.1	83	196
12&15	.0	.0	8.8	35.3	44.1	11.8	81	34
18&21	.0	.5	3.3	21.9	31.0	43.3	86	210
TOT	0	2	26	125	153	153	84	459

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1890-1977

TABLE 17

AREA 0012 NEW HEBRIDES ISLANDS
16.8S 167.7E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.0	.4	.4	2	.0	.8
5	.0	.0	1.2	1.2	.0	6	.0	2.3
3	.0	.4	.8	1.6	.4	8	.0	3.1
2	.0	.0	1.2	1.9	.4	9	.0	3.5
1	.0	.8	3.9	1.9	.0	17	.4	6.2
0	.0	1.9	8.9	3.9	.0	38	.0	14.7
-1	.0	3.1	7.0	3.1	.0	34	.4	12.8
-2	.0	2.3	13.0	1.6	.0	45	.0	17.4
-3	.8	3.1	8.5	.4	.0	33	.0	12.8
-4	.8	3.5	4.3	.0	.0	22	.4	8.1
-5	1.6	4.7	2.7	.0	.0	23	.0	8.9
-6	1.6	3.1	1.2	.0	.0	15	.0	5.8
-7/-8	.8	.0	.8	.0	.0	4	.0	1.6
-9/-10	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	14	60	139	41	4	258	3	255
PCT	5.4	23.2	53.9	15.9	1.6	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.2	1.6	.0	.0	.0	4.8
3-4	.0	.0	.0	1.1	.0	.0	1.1
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	2.7	1.1	.0	.0	7.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	2.2	.8	10.8	.0	.0	.0	13.7
3-4	.0	5.4	4.6	.8	.0	.0	10.8
5-6	.0	.0	.8	.8	1.1	.0	2.7
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.0	1.1	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	7.0	18.0	2.7	1.1	.0	30.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	1.1	.0	.0	.0	1.3
1-2	.0	12.4	3.8	.0	.0	.0	16.1
3-4	.0	4.3	15.3	3.5	.0	.0	23.1
5-6	.0	.0	4.4	1.3	1.1	.0	7.0
7	.0	1.1	1.3	.0	.0	.0	2.4
8-9	.0	.0	1.3	.0	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	18.0	27.4	4.8	1.1	.0	51.3

PERIOD: (OVER-ALL) 1963-1977 JUNE AREA 0012 NEW HEBRIDES ISLANDS 16.0S 167.7E

TABLE 1b (COUNT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.0	.0	.0	.0	.8	.0	1.4	.0	.0	.0	.0	1.1
3-4	.0	.0	2.7	.0	.0	.0	2.7	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	3.5	.0	.0	.0	4.3	.0	2.2	.0	.0	.0	.0	2.2

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	2.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	2.2	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.2	1.1	1.1	.0	.0	.0	4.3	
1-2	2.2	18.3	16.1	.0	.0	.0	36.6	
3-4	.0	10.8	24.7	5.4	.0	.0	40.9	
5-6	.0	.0	6.5	2.2	2.2	.0	10.8	
7	.0	1.1	3.2	.0	.0	.0	4.3	
8-9	.0	.0	2.2	.0	.0	.0	2.2	
10-11	.0	.0	.0	1.1	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	31.2	53.8	8.6	2.2	.0	100.0	93

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	12.6	15.5	5.8	4.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	4
6-7	.0	1.9	16.5	10.7	4.9	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	4
8-9	.0	1.9	.0	2.9	2.9	2.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
10-11	.0	2.9	1.0	1.9	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
12-13	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	1.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
TOTAL	0	20	36	22	14	7	2	2	0	0	0	0	0	0	0	0	0	0	0	103	4
PCT	.0	19.4	35.0	21.4	13.6	6.8	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1875-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.8S 167.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.8	.0	5.9	.0	.0	.0	.0	13.7	.0	.0	.0	.0	.0		.0	86.3
NE	.0	4.2	5.2	.0	.0	.0	.0	9.4	.0	.0	.0	.0	.0		.0	90.6
E	2.9	4.9	3.0	.0	.0	.0	.0	8.8	.5	.5	.0	.0	.8		.0	89.4
SE	2.7	3.3	3.3	.0	.0	.0	.0	9.6	.8	.0	.0	.0	1.3		.0	88.3
S	4.2	4.2	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0		.0	91.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	7.3	.0	.0	.0	.0	.0	7.3	.0	.0	.0	.0	.0		.0	92.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	7.1	2.4	.0	.0	.0	.0	.0	9.5	.0	4.8	.0	.0	.0		.0	90.5
TOT PCT	3.0	3.0	2.6	.0	.0	.0	.0	8.7	.4	.7	.0	.0	.7		.0	90.0
TOT OBS:	460															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	8.7	.0	4.3	.0	.0	.0	.0	13.0	.0	.0	.0	.0	.0		.0	87.0
06&09	3.7	4.6	2.6	.0	.0	.0	.0	10.5	.0	.5	.0	.0	1.1		.0	88.4
12&15	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	4.0	.0	.0	.0		.0	92.0
18&21	1.8	4.7	2.7	.0	.0	.0	.0	7.1	.0	.4	.0	.0	.4		.0	91.6
TOT PCT	3.0	3.0	2.6	.0	.0	.0	.0	8.6	.4	.6	.0	.0	.6		.0	90.1
TOT OBS:	464															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.7	.7	.5	.0	.0	.0		2.9	5.7	.0	.0	.0	4.2	6.0	.0	3.9	2.1
NE	2.6	2.5	.4	.0	.0	.0		5.5	5.0	.0	.0	4.0	6.5	.9	.0	1.3	6.7
E	8.1	19.2	13.5	.7	.0	.0		41.5	9.3	38.4	.0	42.0	43.0	42.2	75.0	31.6	41.2
SE	5.1	12.6	8.1	1.3	.4	.0		27.4	10.2	42.0	.0	38.0	20.7	41.4	25.0	48.7	26.4
S	1.8	2.7	1.0	.0	.2	.0		5.8	8.3	16.1	.0	4.0	6.2	2.6	.0	3.9	4.9
SW	1.1	1.6	.6	.0	.0	.0		3.3	6.2	3.6	.0	8.0	3.0	3.4	.0	5.3	2.9
W	1.1	1.6	.0	.0	.0	.0		2.7	4.5	.0	.0	4.0	3.1	.0	.0	.0	3.3
NW	1.3	.8	.0	.0	.0	.0		2.1	3.6	.0	.0	.0	2.7	3.4	.0	.0	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.6							8.6	.0	.0	.0	.0	10.8	.0	.0	5.3	15.3
TOT OBS	158	209	121	10	3	0	501		8.0	28	0	25	186	29	1	19	213
TOT PCT	31.5	41.7	24.2	2.0	.6	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.1	.5	.3	.0	.0		2.9	5.7	.0	3.7	5.8	2.3
NE	4.4	.8	.3	.0	.0		5.5	5.0	.0	6.2	.8	6.3
E	17.3	17.4	5.6	.2	.0		41.5	9.3	38.4	42.9	43.3	40.4
SE	9.9	12.0	5.1	.0	.4		27.4	10.2	42.0	22.7	40.8	28.2
S	2.3	2.9	.3	.2	.0		5.8	8.3	16.1	5.9	2.5	4.8
SW	2.1	1.2	.0	.0	.0		3.3	6.2	3.6	3.6	3.3	3.1
W	2.1	.6	.0	.0	.0		2.7	4.5	.0	3.2	.0	3.0
NW	1.9	.2	.0	.0	.0		2.1	3.6	.0	2.4	3.3	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.6						8.6	.0	.0	9.5	.0	9.9
TOT OBS	254	179	64	2	2	501		8.0	28	211	30	232
TOT PCT	50.7	35.7	12.8	.4	.4		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1875-1977

AREA 0012 NEW HEBRIDES ISLANDS
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.0	28.6	64.3	7.1	.0	.0	14.1	100.0	28
06&09	9.5	25.6	43.6	19.0	1.4	.9	.0	7.4	100.0	211
12&15	.0	.0	33.3	60.0	3.3	3.3	.0	14.7	100.0	30
18&21	9.9	26.3	42.7	19.4	1.7	.0	.0	7.0	100.0	232
TOT	43	115	209	141	10	3	0	8.0		501
PCT	8.6	23.0	41.7	28.2	2.0	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.9	.0	.0		3.0
NE	.0	.3	.0	.0		3.0
E	7.6	7.0	18.0	11.6		5.5
SE	7.0	10.4	10.4	12.8		5.2
S	1.2	.9	3.4	.0		4.6
SW	2.4	.0	2.4	.0		4.0
W	.0	.0	1.2	.0		6.0
NW	.0	.0	1.2	.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	1.2		8.0
TOT OBS	15	16	30	21	82	5.3
TOT PCT	18.3	19.5	36.6	25.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
.0	.0	2.4	5.8	10.4	4.6	.9	.0	.0	.0	20.4	
.0	.0	.0	2.1	7.9	5.2	1.5	.0	.0	.0	23.8	
.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	3.4	
.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	2.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
0	0	2	10	15	8	2	0	0	0	45	82
.0	.0	2.4	12.2	18.3	9.8	2.4	.0	.0	.0	54.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
* OR >2000	4.8	12.0	12.0	12.0	12.0	12.0	12.0	12.0
* OR >1000	18.1	27.7	30.1	30.1	30.1	30.1	30.1	30.1
* OR >600	26.5	38.6	42.2	42.2	42.2	42.2	42.2	42.2
* OR >300	26.5	38.6	44.6	44.6	44.6	44.6	44.6	44.6
* OR >150	26.5	38.6	44.6	44.6	44.6	44.6	44.6	44.6
* OR > 0	26.5	38.6	44.6	44.6	44.6	44.6	44.6	44.6
TOTAL	22	32	37	37	37	37	37	37

TOTAL NUMBER OF OBS: 83

PCT FREQ NH <3/8: 55.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.1	6.3	15.6	17.7	13.5	8.3	10.4	10.4	14.6	.0	96

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1875-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4	
1<2	PCP	.2	.1	.4	.2	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.4	.2	.0	.0	.0	.0	.0	.0	.9	
2<5	PCP	.0	.2	1.1	.4	.0	.0	.0	.0	.0	.0	1.7	
	NO PCP	.2	.1	2.8	.8	.2	.0	.0	.2	.0	.0	4.1	
	TOT %	.2	.3	3.9	1.0	.2	.0	.0	.2	.0	.0	5.9	
5<10	PCP	.2	.2	1.7	1.1	.2	.0	.2	.0	.0	.4	4.1	
	NO PCP	.4	2.2	10.1	11.0	2.3	1.1	.0	.7	.0	3.3	31.1	
	TOT %	.7	2.4	11.8	12.1	2.5	1.1	.2	.7	.0	3.7	35.2	
10+	PCP	.0	.0	.3	.3	.2	.0	.0	.0	.0	.4	1.3	
	NO PCP	1.7	2.4	26.4	11.7	2.3	2.2	2.8	1.4	.0	5.0	55.9	
	TOT %	1.7	2.4	26.7	12.0	2.5	2.2	2.8	1.4	.0	5.4	57.2	
TOT OBS													460
TOT PCT		2.8	5.2	43.0	26.0	5.2	3.3	3.0	2.3	.0	9.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.1	.6	.0	.4	.1	.0	.0	.0		1.1	
	11-21	.0	.0	.2	.4	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.8	.6	.4	.1	.0	.0	.0	.0	1.9	
1/2<1	0-3	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.2	.2	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.4	.2	.2	.0	.0	.0	.0	.0	.0	.8	
1<2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.1	.2	.0	.0	.0	.0		.2	
	11-21	.2	.1	.4	.2	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.4	.1	.4	.5	.2	.0	.0	.0	.0	.0	1.5	
2<5	0-3	.2	.2	.0	.0	.0	.0	.0	.2	.0	.0	.6	
	4-10	.0	.1	1.2	.2	.2	.0	.0	.0	.0		1.7	
	11-21	.0	.0	2.6	.8	.0	.0	.0	.0	.0		3.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.3	3.8	1.0	.2	.0	.0	.2	.0	.0	5.7	
5<10	0-3	.4	1.3	3.2	3.5	1.1	.3	.0	.4	.0	3.6	13.9	
	4-10	.2	.8	4.5	5.9	1.1	.6	.2	.2	.0		13.4	
	11-21	.0	.2	3.4	1.8	.3	.2	.0	.0	.0		5.9	
	22+	.0	.0	.4	.5	.0	.0	.0	.0	.0		.8	
	TOT %	.6	2.4	11.4	11.7	2.4	1.1	.2	.6	.0	3.6	34.0	
10+	0-3	.9	.9	5.0	1.4	.7	.8	1.2	.7	.0	5.3	17.0	
	4-10	.4	1.3	13.6	5.2	1.1	.8	1.5	.6	.0		24.4	
	11-21	.4	.2	7.3	4.5	.5	.4	.0	.0	.0		13.2	
	22+	.0	.0	.7	1.1	.2	.0	.0	.0	.0		1.5	
	TOT %	1.7	2.4	26.0	12.2	2.4	2.1	2.7	1.4	.0	5.3	56.1	
TOT OBS													476
TOT PCT		2.9	5.5	42.6	26.3	5.6	3.3	2.9	2.2	.0	8.8	100.0	

JULY

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1875-1977

AREA 001, NEW HEBRIDES ISLANDS
16.8S 167.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	4.8	14.3	14.3	9.5	.0	.0	.0	.0	42.9	57.1	21
06609	.0	.0	4.0	16.0	12.0	8.0	8.0	.0	.0	.0	48.0	52.0	25
12615	.0	.0	.0	.0	23.8	14.3	.0	.0	.0	.0	38.1	61.9	21
18621	.0	.0	.0	12.5	16.7	4.2	.0	.0	.0	.0	33.3	66.7	24
TOT	0	0	2	10	15	8	2	0	0	0	37	54	91
PCT	.0	.0	2.2	11.0	16.5	8.8	2.2	.0	.0	.0	40.7	59.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	4.3	.0	.0	13.0	13.0	69.6	23
06609	3.9	1.0	2.5	7.4	40.9	44.3	203
12615	.0	.0	.0	8.0	8.0	84.0	25
18621	.0	.9	.9	3.1	32.8	62.4	229
TOT	9	4	7	27	163	270	480
PCT	1.9	.8	1.5	5.6	34.0	56.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <5 OVC	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	5.3	26.3	21.1	52.6	19
06609	.0	4.2	25.0	29.2	45.8	24
12615	.0	.0	5.3	36.8	57.9	19
18621	.0	.0	19.0	23.8	57.1	21
TOT	0	2	16	23	44	83
PCT	.0	2.4	19.3	27.7	53.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.3	.0	.0	.8	.6	.0	6	1.7
80/84	.0	.0	.0	.3	.6	11.0	7.2	5.0	87	24.0
75/79	.0	.0	.0	1.1	2.8	13.8	16.5	25.9	218	60.1
70/74	.0	.0	.0	.3	2.2	2.2	3.6	5.5	50	13.8
65/69	.0	.0	.0	.0	.0	.0	.3	.0	1	.3
60/64	.0	.0	.0	.0	.0	.0	.0	.3	1	.3
TOTAL	0	0	1	6	20	101	102	133	363	100.0
PCT	.0	.0	.3	1.7	5.5	27.8	28.1	36.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.8	.0	.0	.0	.0	.3	.0	.6
1.1	.7	12.0	4.8	.7	.6	1.1	.6	.0	2.5
1.7	2.7	28.0	16.0	2.6	2.0	2.4	1.7	.0	3.0
.5	1.1	5.4	3.5	1.4	1.2	.0	.1	.0	.6
.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
3.2	4.5	46.4	24.4	5.0	3.8	3.5	2.6	.0	6.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	82	81	81	78	72	68	68	77.4	28
06609	86	85	82	78	73	68	63	77.6	182
12615	80	79	79	77	73	71	71	76.8	30
18621	85	84	82	77	73	70	70	77.3	235
TOT	86	85	82	77	73	70	63	77.4	475

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	9.1	9.1	45.5	18.2	18.2	77	22
06609	.0	1.5	6.7	28.1	24.4	39.3	85	135
12615	.0	.0	13.8	13.8	58.6	13.8	82	29
18621	.0	1.7	2.8	27.6	27.6	40.3	86	181
TOT	0	7	20	102	104	134	85	367

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1875-1977

AREA 0012 NEW HERRIDES ISLANDS
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	nO FOG
6	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.0	.0	.0	.8	.4	.0	3	.0	1.1
4	.0	.0	.0	.0	.4	.0	.0	1	.0	.4
3	.0	.0	.0	.0	.4	.8	.4	4	.0	1.5
2	.0	.0	.0	.4	1.9	1.9	.0	11	.0	4.2
1	.0	.0	.0	.4	7.2	1.5	.0	24	.0	9.1
0	.0	.0	.4	2.3	11.7	1.1	.0	41	.0	15.5
-1	.0	.0	.0	5.7	10.6	.8	.0	45	.0	17.0
-2	.0	.0	.0	6.8	12.1	.4	.0	51	.0	19.2
-3	.0	.0	.0	4.5	6.8	.0	.0	30	.0	11.3
-4	.0	.4	.0	6.4	3.0	.0	.0	26	.0	9.8
-5	.4	.0	.4	2.3	1.9	.0	.0	13	.0	4.9
-6	.0	.0	.0	1.9	.8	.0	.0	7	.0	2.6
-7/-8	.0	.4	.8	1.9	.0	.0	.0	8	.0	3.0
TOTAL	1		4		152		1		0	265
PCT	.4	.8	1.5	32.5	57.4	7.2	.4	265 100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.0	1.0	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	1.0	.0	.0	.0	2.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.3	.3	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	1.0	.3	.3	.0	.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.7	.0	.0	.0	.0	3.7
3-4	.0	5.3	12.0	.0	.0	.0	17.3
5-6	.0	.0	9.7	1.0	.0	.0	10.7
7	.0	.0	4.3	1.0	.0	.0	5.3
8-9	.0	.0	2.3	.0	.0	.0	2.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	2.7	.0	.0	.0	2.7
13-16	.0	.0	1.3	.0	.0	.0	1.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.0	32.3	2.0	.0	.0	43.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	1.3	.0	.0	.0	2.0
1-2	.0	4.3	3.0	.0	.0	.0	7.3
3-4	.0	.0	8.0	.0	.0	.0	8.0
5-6	.0	1.3	6.3	3.0	.0	.0	10.7
7	.0	.0	1.0	.3	1.3	.0	2.7
8-9	.0	.0	4.3	.0	.0	.0	4.3
10-11	.0	.0	1.3	1.3	1.3	.0	4.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	25.3	4.7	2.7	.0	39.0

PERIOD: (OVER-ALL) 1958-1977 JULY AREA 0012 NEW HEBRIDES ISLANDS

TABLE 18 (CONT) 16.8S 167.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	.0	.0	.0	2.3	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	2.7	.0	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	2.3	.0	1.3	.0	7.0	.0	1.3	2.7	.0	.0	.0	4.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	1.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	1.3	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	2.6	1.3	.0	.0	.0	6.5	
1-2	1.3	11.7	5.2	.0	.0	.0	18.2	
3-4	.0	7.8	23.4	.0	.0	.0	31.2	
5-6	.0	1.3	15.6	3.9	.0	.0	20.8	
7	.0	.0	5.2	1.3	2.6	.0	9.1	
8-9	.0	.0	6.5	.0	.0	.0	6.5	
10-11	.0	.0	1.3	1.3	1.3	.0	3.9	
12	.0	.0	2.6	.0	.0	.0	2.6	
13-16	.0	.0	1.3	.0	.0	.0	1.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								77
TOT PCT	3.9	23.4	62.3	6.5	3.9	.0	100.0	

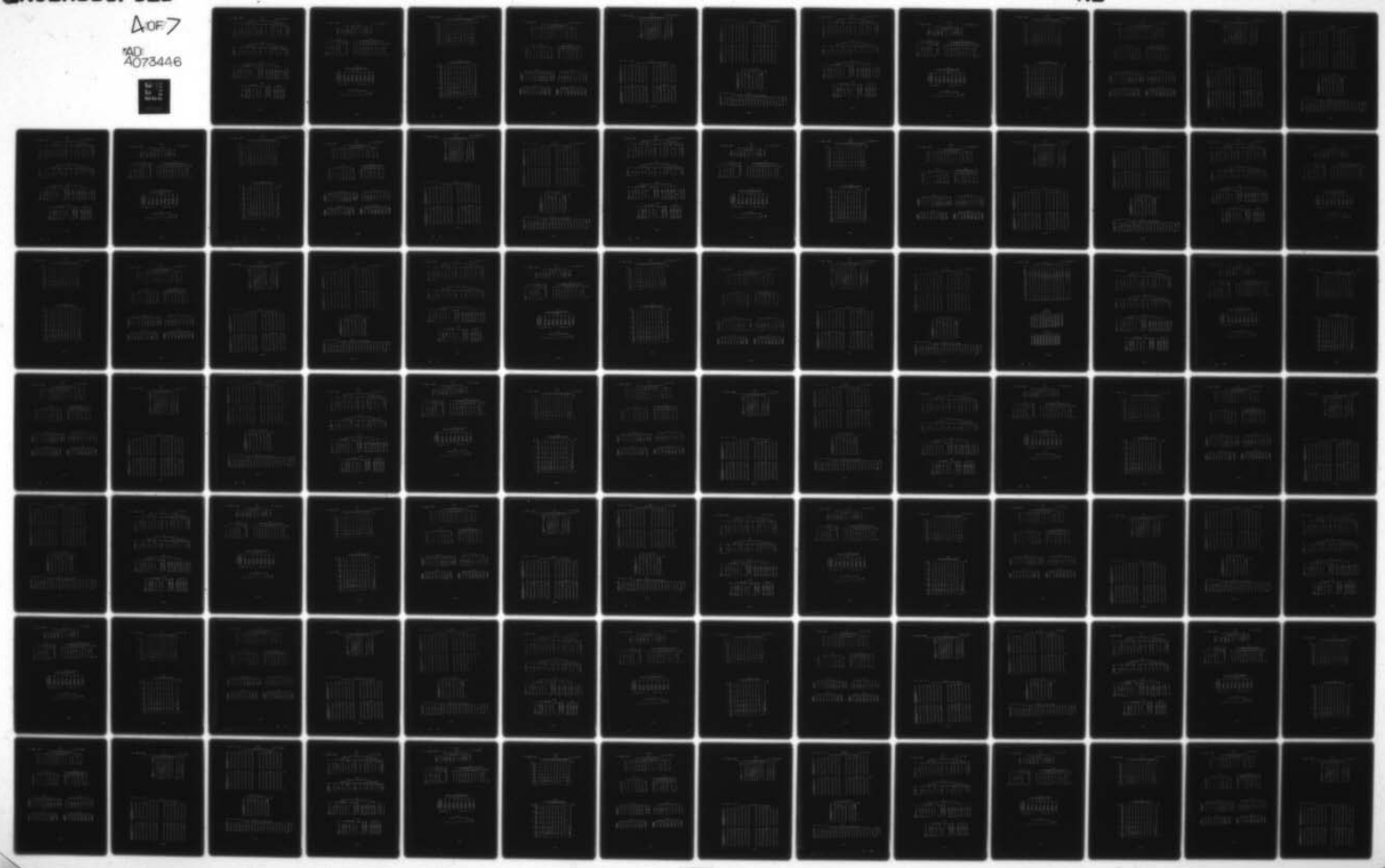
PERIOD: (OVER-ALL) 1958-1977 TABLE 19

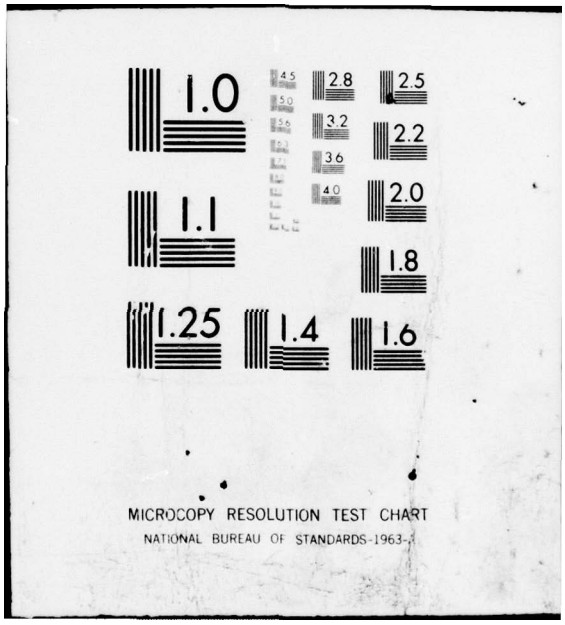
PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.7	13.4	7.3	2.4	4.9	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	5
6-7	.0	1.2	3.7	13.4	4.9	7.3	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	6
8-9	.0	.0	1.2	1.2	4.9	11.0	2.4	.0	3.7	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	9
10-11	.0	.0	.0	4.9	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.7	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	1
TOTAL	3	4	15	21	10	19	4	0	4	2	0	0	0	0	0	0	0	0	0	82	6
PCT	3.7	4.9	18.3	25.6	12.2	23.2	4.9	.0	4.9	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AD-A073 446 NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO) SELECTED--ETC(U)
SEP 79

UNCLASSIFIED NL




1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

AUGUST

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1874-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.6S 167.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	2.7		.0	94.6
E	1.7	4.6	2.1	.0	.0	.0	.0	6.0	.9	.4	1.8	.0	1.3		.0	89.6
SE	.1	.5	1.6	.0	.0	.0	.0	2.2	1.5	.0	.5	.0	1.5		.0	94.3
S	1.7	1.7	1.7	.0	.0	.0	.0	5.2	.0	.0	.0	.0	3.0		.0	91.8
SW	10.5	.0	.0	.0	.0	.0	.0	10.5	.0	.0	.0	.0	6.6		.0	82.9
W	5.2	3.9	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0		.0	90.9
NW	.0	1.6	6.6	.0	.0	.0	.0	8.2	.0	.0	.0	.0	6.6		.0	85.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0		.0	98.0
TOT PCT	1.3	1.4	1.6	.0	.0	.0	.0	4.2	.8	.2	.9	.0	1.7		.0	92.2
TOT OBS:	638															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
0060	6.5	.0	3.2	.0	.0	.0	.0	9.7	9.7	3.2	.0	.0	3.2		.0	74.2
0609	1.1	2.2	1.5	.0	.0	.0	.0	4.8	.7	.0	1.5	.0	.7		.0	92.2
1215	.0	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0		.0	93.3
1821	.9	.9	1.2	.0	.0	.0	.0	3.0	.0	.0	.6	.0	2.4		.0	94.0
TOT PCT	1.2	1.4	1.5	.0	.0	.0	.0	4.2	.8	.2	.9	.0	1.7		.0	92.3
TOT OBS:	649															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	1.6	.0	.0	.0	.0		2.5	4.8	3.1	.0	.0	2.2	.0	.0	.0	3.0
NE	1.7	3.7	.6	.0	.0	.0		6.1	5.5	.0	.0	5.3	6.9	6.3	.0	.0	6.3
E	6.2	18.6	9.2	1.0	.0	.0		35.1	8.7	33.6	.0	40.8	41.6	21.9	100.0	19.6	31.1
SE	3.1	16.7	11.0	.9	.0	.0		31.7	10.1	33.6	50.0	38.2	26.4	60.9	.0	48.2	33.2
S	2.1	4.5	2.5	.1	.0	.0		9.2	8.2	25.8	50.0	10.5	6.8	4.7	.0	10.7	9.5
SW	1.2	1.5	.2	.0	.0	.0		2.9	4.7	.8	.0	.0	2.0	.0	.0	8.9	3.8
W	1.0	1.2	.6	.0	.0	.0		2.9	6.2	3.1	.0	3.9	2.6	.0	.0	5.4	3.1
NW	1.2	1.0	.1	.0	.0	.0		2.3	3.6	.0	.0	1.3	3.2	.0	.0	.0	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.5							7.5	.0	.0	.0	.0	8.5	6.3	.0	7.1	8.0
TOT OBS	166	327	162	14	0	0	669		7.9	32	2	19	259	16	1	14	326
TOT PCT	24.8	48.9	24.2	2.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.0	.4	.0	.0	.0		2.5	4.8	2.9	2.1	.0	2.9
NE	4.8	1.1	.1	.0	.0		6.1	5.5	.0	6.8	5.9	6.0
E	15.4	16.6	2.9	.2	.0		35.1	8.7	31.6	41.5	26.5	30.6
SE	11.2	14.8	5.2	.4	.0		31.7	10.1	34.6	27.2	57.4	33.8
S	4.6	3.6	.9	.1	.0		9.2	8.2	27.2	6.8	4.4	9.6
SW	2.4	.4	.0	.0	.0		2.9	4.7	.7	1.9	.0	4.0
W	2.2	.5	.1	.0	.0		2.9	6.2	2.9	2.7	.0	3.2
NW	2.2	.1	.0	.0	.0		2.3	3.6	.0	3.1	.0	2.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.5						7.5	.0	.0	7.9	5.9	7.9
TOT OBS	351	251	62	5	0	669		7.9	34	278	17	340
TOT PCT	52.5	37.5	9.3	.7	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1874-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.6S 167.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	.0	5.9	32.4	58.8	2.9	.0	.0	13.2	100.0	34
06609	7.9	16.5	52.5	21.2	1.8	.0	.0	7.5	100.0	278
12615	5.9	.0	29.4	58.8	5.9	.0	.0	13.0	100.0	17
18621	7.9	20.0	48.5	21.5	2.1	.0	.0	7.4	100.0	340
TOT	50	116	327	102	14	0	0	7.9		669
PCT	7.5	17.3	48.9	44.2	2.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	1.5		8.0
E	13.5	2.3	5.8	7.2		4.2
SE	13.5	8.8	18.1	3.5		4.3
S	10.0	2.7	2.3	1.5		3.1
SW	.0	1.9	.0	.0		3.8
W	.0	1.2	.0	2.7		6.5
NW	.0	.0	.0	.4		8.0
VAR	.0	.0	.0	.0		.0
CALM	3.1	.0	.0	.0		.5
TOT OBS	26	11	17	11	65	4.1
TOT PCT	40.0	16.9	26.2	16.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	
.0	.0	3.1	.0	6.9	1.5	.0	.0	1.5	.0	15.8	
.0	.0	.0	3.1	12.3	3.1	.0	.0	.0	.0	25.4	
.0	.0	.0	1.5	2.3	.0	.0	.0	.0	.0	12.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
.0	.0	1.2	1.5	.0	.0	.0	.0	.0	.0	1.2	
.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	
0	0	3	4	14	3	1	0	1	0	39	65
.0	.0	4.6	6.2	21.5	4.6	1.5	.0	1.5	.0	60.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >5000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >3500	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
* OR >1000	26.5	29.4	30.9	30.9	30.9	30.9	30.9	30.9
* OR >600	27.9	33.8	35.3	36.8	36.8	36.8	36.8	36.8
* OR >300	27.9	36.8	38.2	41.2	41.2	41.2	41.2	41.2
* OR >150	27.9	36.8	38.2	41.2	41.2	41.2	41.2	41.2
* OR > 0	27.9	36.8	38.2	41.2	41.2	41.2	41.2	41.2
TOTAL	19	25	26	28	28	28	28	28

TOTAL NUMBER OF OBS: 68 PCT FREQ NH <5/8: 58.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.3	25.3	16.5	7.6	3.8	6.3	8.9	10.1	15.2 .0	79

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1874-1977

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16.6S 167.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.2	.6	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.2	.8	.0	.0	.0	.0	.0	.0	.0	.9	
1<2	PCP	.0	.0	.1	*	.0	.0	.3	*	.0	.0	.5	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.2	.0	.0	.3	*	.0	.0	.6	
2<5	PCP	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.9	
	NO PCP	.0	.3	2.5	2.1	.7	*	.0	.2	.0	.2	6.0	
	TOT %	.0	.3	2.8	2.4	1.0	*	.0	.2	.0	.2	6.9	
5<10	PCP	.0	.0	.9	.0	.2	.2	.0	.0	.0	.2	1.4	
	NO PCP	.2	1.4	9.8	9.4	2.2	.5	.6	.5	.0	1.4	26.0	
	TOT %	.2	1.4	10.7	9.4	2.4	.7	.6	.5	.0	1.6	27.4	
10+	PCP	.0	.0	.6	.4	.0	.2	.0	.2	.0	.0	1.3	
	NO PCP	1.6	4.0	20.5	19.2	5.8	2.1	2.2	1.4	.0	6.1	62.9	
	TOT %	1.6	4.0	21.0	19.5	5.8	2.2	2.2	1.7	.0	6.1	64.1	
	TOT OBS												638
	TOT PCT	1.8	5.8	35.4	31.5	9.1	3.0	3.0	2.4	.0	7.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.5	
	4-10	.0	.2	.5	.0	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.1	*	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.3	1.0	*	.0	.0	.0	.0	.0	.0	1.4	
1<2	0-3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.3	.0	.2	.2	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.1	.3	.0	.0	.3	*	.0		.8	
	22+	.0	.0	.1	*	.0	.0	.0	.0	.0		.2	
	TOT %	.5	.2	.4	.5	.0	.0	.3	*	.0	.0	1.8	
2<5	0-3	.0	.0	.3	*	.1	.0	.0	.2	.0	.2	.8	
	4-10	.0	.3	1.6	1.6	.6	*	.0	.0	.0		4.1	
	11-21	.0	.0	.6	.5	.3	.0	.0	.0	.0		1.4	
	22+	.0	.0	.2	.4	.1	.0	.0	.0	.0		.6	
	TOT %	.0	.3	2.7	2.4	1.1	*	.0	.2	.0	.2	6.9	
5<10	0-3	.1	.5	2.2	1.0	.8	.3	.0	.3	.0	1.5	6.7	
	4-10	.2	.8	5.0	4.2	.9	.4	.4	.2	.0		12.0	
	11-21	.0	*	3.0	3.8	.6	.0	.2	.0	.0		7.6	
	22+	.0	.0	.2	.2	.0	.0	.0	.0	.0		.3	
	TOT %	.2	1.4	10.4	9.1	2.3	.7	.6	.5	.0	1.5	26.7	
10+	0-3	.5	.9	3.5	2.1	1.2	.9	1.0	.8	.0	5.9	16.9	
	4-10	1.1	2.5	11.4	10.8	2.9	1.1	.8	.8	.0		31.4	
	11-21	.0	.4	5.3	6.4	1.4	.2	.2	*	.0		14.0	
	22+	.0	.0	.4	.3	.1	.0	.0	.0	.0		.8	
	TOT %	1.6	3.8	20.6	19.6	5.6	2.2	2.1	1.7	.0	5.9	63.1	
	TOT OBS												636
	TOT PCT	2.2	6.1	35.1	31.7	9.0	2.9	2.9	2.3	.0	7.6	100.0	

AUGUST

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1874-1977

AREA 0012 NEW HERRIDES ISLANDS
16.6S 167.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.7	7.4	18.5	7.4	.0	.0	3.7	.0	40.7	59.3	27
06&09	.0	.0	11.1	11.1	27.8	5.6	5.6	.0	.0	.0	61.1	38.9	18
12&15	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0	28.6	71.4	14
18&21	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	12.5	87.5	16
TOT	0	0	3	4	14	5	1	0	1	0	28	47	75
PCT	.0	.0	4.0	5.3	18.7	6.7	1.3	.0	1.3	.0	37.3	62.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	3.1	.0	18.8	78.1	32
06&09	.4	4.0	3.2	14.2	40.1	39.7	282
12&15	.0	.0	.0	6.7	26.7	66.7	15
18&21	.0	.0	.6	1.5	16.0	81.4	338
TOT	1	9	12	46	177	422	667
PCT	.1	1.3	1.8	6.9	26.5	63.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	4.0	12.0	32.0	56.0	25
06&09	.0	11.1	22.2	38.9	38.9	18
12&15	.0	.0	8.3	25.0	66.7	12
18&21	.0	.0	.0	15.4	84.6	13
TOT	0	3	8	20	40	68
PCT	.0	4.4	11.8	29.4	58.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.0	.0	.2	2	.3
85/89	.0	.0	.0	.0	.5	1.7	.7	.7	21	3.6
80/84	.0	.0	.0	.0	2.1	10.7	10.2	4.6	160	27.5
75/79	.0	.0	.0	.3	2.6	12.2	17.9	19.6	306	52.7
70/74	.0	.0	.0	.3	2.4	3.8	3.8	5.2	90	15.5
65/69	.0	.0	.0	.0	.2	.2	.0	.0	2	.3
TOTAL	0	0	0	4	46	166	189	176	581	100.0
PCT	.0	.0	.0	.7	7.9	28.6	32.5	30.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.2	.0	.0	.0	.0	.0	.0
.0	.0	.5	1.4	.0	.0	.0	.3	.0	1.4
1.2	1.8	8.6	8.5	2.0	1.0	.8	.6	.0	3.1
1.0	3.4	20.8	17.1	4.3	1.4	1.5	.9	.0	2.1
.5	.5	5.1	4.9	2.3	.5	.9	.4	.0	.3
.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
2.8	5.7	35.2	32.1	9.0	2.9	3.2	2.3	.0	6.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	83	82	82	77	70	65	65	76.6	36
06&09	88	87	84	78	73	71	69	78.0	284
12&15	81	80	80	77	70	70	70	76.8	17
18&21	93	89	84	78	73	69	68	78.0	341
TOT	93	87	84	78	73	70	65	77.9	678

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.7	20.0	26.7	36.7	10.0	77	30
06&09	.0	.0	6.1	26.6	31.6	35.7	85	244
12&15	.0	.0	13.3	26.7	33.3	26.7	82	15
18&21	.0	.7	7.6	30.2	33.2	28.2	83	301
TOT	0	4	46	168	193	179	83	590

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1874-1977

AREA 0012 NEW HEBRIDES ISLANDS
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.3	.9	4	.0	1.2
7/8	.0	.0	.0	.0	.3	.6	.0	3	.0	.9
6	.0	.0	.0	.0	.6	.0	.0	2	.0	.6
5	.0	.0	.0	.0	.6	.6	.0	4	.0	1.2
4	.0	.0	.3	.3	.9	.0	.3	6	.0	1.8
3	.0	.0	.0	.3	2.1	.0	.0	8	.0	2.4
2	.0	.0	.3	2.9	2.9	.0	.0	21	.3	5.9
1	.0	.0	1.2	3.5	2.9	.3	.0	27	.0	8.0
0	.0	.0	1.8	10.9	3.2	.3	.0	55	.6	15.6
-1	.0	.0	1.8	11.8	1.2	.0	.0	50	.3	14.5
-2	.3	.3	4.7	10.3	.0	.0	.0	53	.3	15.3
-3	.0	.6	5.0	6.8	.6	.3	.0	45	.3	13.0
-4	.0	.9	2.4	3.2	.3	.0	.0	23	.0	6.8
-5	.0	.6	1.8	.9	.0	.0	.0	11	.0	3.2
-6	.0	1.8	1.8	.9	.0	.0	.0	15	.0	4.4
-7/-8	.0	.9	1.5	.6	.0	.0	.0	10	.0	2.9
-9/-10	.0	.0	.6	.0	.0	.0	.0	2	.0	.6
TOTAL	1		78		53	8	4	339		
		17		178					6	333
PCT	.3	5.0	23.0	52.5	15.6	2.4	1.2	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1965-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	.0	.0	.0	.0	3.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.2	2.7	.0	.0	.0	6.8
3-4	.0	2.3	7.6	.0	.0	.0	9.8
5-6	.0	.0	7.6	.0	.0	.0	7.6
7	.0	.8	2.7	.0	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.1	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.4	20.5	1.1	.0	.0	28.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.4	7.2	1.9	.0	.0	.0	9.5
3-4	.0	3.8	14.0	.0	.0	.0	17.8
5-6	.0	.0	12.5	.0	.0	.0	12.5
7	.0	.0	1.9	1.5	.0	.0	3.4
8-9	.0	.0	1.5	.0	.0	.0	1.5
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	12.5	31.8	1.9	.0	.0	46.6

PERIOD: (OVER-ALL) 1964-1977

AUGUST

TABLE 18 (CONT)

AREA 0012 NEW HEBRIDES ISLANDS
16.6S 167.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	4.1	3.8	.0	.0	.0	.0	7.9
3-4	.0	3.0	4.2	.0	.0	.0	7.2
5-6	.0	.0	2.7	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.1	6.8	6.9	.0	.0	.0	17.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.4	.0	.0	.0	1.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.7	.0	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.8	.0	.0	.0	3.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.4	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.4	.0	.0	.0	.4	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	2.9	.0	.0	.0	.0	7.4	
1-2	1.5	17.6	4.4	.0	.0	.0	23.5	
3-4	.0	8.8	27.9	.0	.0	.0	36.8	
5-6	.0	.0	22.1	.0	.0	.0	22.1	
7	.0	.0	4.4	1.5	.0	.0	5.9	
8-9	.0	.0	2.9	.0	.0	.0	2.9	
10-11	.0	.0	.0	1.5	.0	.0	1.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	29.4	61.8	2.9	.0	.0	100.0	68

PERIOD: (OVER-ALL) 1955-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	4.0	13.3	9.3	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	4
6-7	.0	1.3	10.7	10.7	6.7	2.7	4.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	6
8-9	.0	.0	.0	5.3	5.3	4.0	1.3	1.3	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	15	8
10-11	.0	.0	.0	1.3	.0	1.3	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	1.3	1.3	1.3	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
TOTAL	1	5	19	24	10	8	7	2	1	0	1	0	0	0	0	0	0	0	0	75	6
PCT	1.3	6.7	25.3	28.0	13.3	10.7	9.3	2.7	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1893-1977

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNDW	NO SIG WEA
N	.0	1.8	9.8	.0	.0	.0	.0	11.6	.0	3.6	.0	.0	.0	.0		84.8
NE	10.1	1.2	.6	.0	.0	.0	.0	11.8	.0	.0	.0	.0	1.2	.0		87.0
E	4.4	1.5	2.8	.0	.0	.0	.0	8.7	.9	.3	.0	.0	1.8	.0		88.3
SE	7.1	3.3	1.1	.0	.0	.0	.0	11.5	1.1	.1	.0	.0	1.1	.0		86.2
S	7.7	.0	1.7	.0	.0	.0	.0	9.4	.0	.0	.0	.0	1.7	.0		88.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
W	18.9	.0	.0	.0	.0	.0	.0	18.9	.0	.0	.0	.0	.0	.0		81.1
NW	1.4	2.7	5.4	.0	.0	.0	.0	9.5	.0	.0	.0	.0	.0	.0		90.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	3.4	.0	.0	.0	.0	.0	.0	3.4	.0	3.4	3.4	.0	.0	.0		89.7
TOT PCT	5.7	1.9	2.2	.0	.0	.0	.0	9.8	.7	.4	.1	.0	1.3	.0		87.7
TOT OBS:	697															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNDW	NO SIG WEA
00&03	2.5	.0	.0	.0	.0	.0	.0	2.5	7.9	.0	.0	.0	.0	.0		90.0
06&09	7.2	1.8	2.4	.0	.0	.0	.0	11.4	.3	.9	.0	.0	1.5	.0		85.9
12&15	4.5	.0	.0	.0	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	.0		90.9
18&21	4.8	2.7	2.1	.0	.0	.0	.0	9.4	.3	.3	.0	.0	1.2	.0		88.8
TOT PCT	5.7	2.1	2.1	.0	.0	.0	.0	9.8	.7	.6	.1	.0	1.2	.0		87.6
TOT OBS:	724															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.7	2.4	.1	.0	.0	.0		4.1	4.7	.0	.0	2.6	5.7	.0	.0	.0	3.8
NE	1.7	4.0	.3	.0	.0	.0		6.0	5.2	2.3	.0	1.7	6.0	4.8	.0	6.7	7.0
E	9.3	19.9	8.2	.8	.0	.0		38.2	7.8	39.0	.0	31.0	38.7	27.4	.0	21.7	39.8
SE	5.2	14.9	10.5	1.8	.0	.3		32.6	10.0	51.7	.0	42.2	30.0	28.6	.0	55.0	31.0
S	2.6	4.3	1.7	.1	.0	.0		8.7	6.9	3.5	.0	12.1	9.9	19.0	.0	10.0	7.2
SW	.4	1.3	.2	*	.0	.0		2.0	6.4	1.2	.0	.0	2.5	6.0	.0	.0	1.6
W	.6	.7	.0	.0	.0	.0		1.4	4.5	2.3	.0	2.6	1.1	.0	.0	.0	1.5
NW	1.3	1.2	.1	.0	.0	.0		2.7	4.3	.0	.0	.9	3.1	4.8	.0	6.7	2.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.2							4.2	.0	.0	.0	6.9	3.1	9.5	.0	.0	5.5
TOT OBS	199	359	156	20	0	2	736		7.7	43	0	29	322	21	0	15	305
TOT PCT	27.0	48.8	21.2	2.7	.0	.3		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.1	1.1	.0	.0	.0		4.1	4.7	.0	5.4	.0	3.6
NE	4.7	1.3	*	.0	.0		6.0	5.2	2.3	5.6	4.8	7.0
E	18.9	16.5	2.6	.2	.0		38.2	7.8	39.0	38.1	27.4	36.9
SE	13.3	14.4	4.4	.2	.3		32.6	10.0	51.7	31.0	28.6	32.2
S	5.2	3.3	.2	.0	.0		8.7	6.9	3.5	10.0	19.0	7.3
SW	1.4	.6	*	.0	.0		2.0	6.4	1.2	2.3	6.0	1.6
W	1.0	.3	.0	.0	.0		1.4	4.5	2.3	1.2	.0	1.5
NW	2.3	.4	.0	.0	.0		2.7	4.3	.0	2.9	4.8	2.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.2						4.2	.0	.0	3.4	9.5	5.3
TOT OBS	397	280	54	3	2	736		7.7	43	351	21	321
TOT PCT	53.9	38.0	7.3	.4	.3		100.0		100.0	100.0	100.0	100.0

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(OVER-ALL) 1883-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.0	37.2	48.8	14.0	.0	.0	14.1	100.0	43
06&09	3.4	24.5	51.6	17.7	2.6	.0	.3	7.3	100.0	351
12&15	9.5	.0	33.3	52.4	.0	.0	4.8	12.4	100.0	21
18&21	5.3	25.5	48.3	19.3	1.6	.0	.0	6.9	100.0	321
TOT	31	168	359	156	20	0	2	7.7		736
PCT	4.2	22.8	48.8	21.2	2.7	.0	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	2.2	1.3		6.4
E	5.9	5.6	13.2	4.3		4.7
SE	7.5	11.8	18.5	11.0		4.9
S	3.8	.8	3.2	1.6		3.9
SW	.0	1.1	.5	.0		3.6
W	.0	1.1	.0	.8		5.7
NW	.0	1.1	1.1	.3		5.3
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.1	1.1	.0		3.3
TOT OBS	17	21	37	18	93	4.7
TOT PCT	18.3	22.6	39.8	19.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	1.3	
E	.0	.0	1.6	3.0	1.6	.0	.0	.8	.0	.0	22.0	
SE	.0	1.1	.5	5.1	6.5	1.1	.0	.3	1.1	.0	33.3	
S	.0	.0	.0	1.6	1.6	.0	.0	.8	.0	.0	5.4	
SW	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1.3	
W	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	1.1	
NW	.0	.0	.0	.0	.0	1.1	.0	.3	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	
TOT OBS	0	1	2	10	9	2	0	4	1	0	64	93
TOT PCT	.0	1.1	2.2	10.8	9.7	2.2	.0	4.3	1.1	.0	68.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	2.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3
* OR >3500	2.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3
* OR >2000	4.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4
* OR >1000	12.8	14.9	14.9	17.0	17.0	17.0	17.0	17.0
* OR >600	21.3	25.5	25.5	27.7	27.7	27.7	27.7	27.7
* OR >300	22.3	26.6	27.7	29.8	29.8	29.8	29.8	29.8
* OR >150	22.3	26.6	28.7	30.9	30.9	30.9	30.9	30.9
* OR > 0	22.3	26.6	28.7	30.9	30.9	30.9	30.9	30.9
TOTAL	21	25	27	29	29	29	29	29

TOTAL NUMBER OF OBS: 94 PCT FREQ NH <5/8: 69.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.9	17.8	18.8	15.8	9.9	8.9	6.9	5.0	9.9	.0	101

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.6	
1<2	PCP	.1	.0	.0	.4	.2	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.3	
	TOT %	.1	.0	.0	.5	.2	.0	.0	.0	.0	.1	1.0	
2<5	PCP	.0	.1	1.1	.7	.0	.0	.0	.0	.0	.0	1.9	
	NO PCP	.5	.2	3.7	2.4	.8	.2	.0	.3	.0	.1	8.3	
	TOT %	.5	.3	4.8	3.1	.8	.2	.0	.3	.0	.1	10.2	
5<10	PCP	.2	.4	1.7	1.6	.6	.0	.0	.1	.0	.0	4.5	
	NO PCP	.7	1.1	12.2	10.8	2.8	.9	.3	.8	.0	.9	30.2	
	TOT %	.9	1.5	13.9	12.5	3.3	.9	.3	.9	.0	.9	34.6	
10+	PCP	.1	.0	.6	.6	.0	.0	.3	.2	.0	.1	2.0	
	NO PCP	2.4	4.1	19.5	15.7	4.0	.6	.8	1.6	.0	2.9	51.6	
	TOT %	2.5	4.1	20.2	16.4	4.0	.6	1.1	1.8	.0	3.0	53.6	
	TOT OBS												696
	TOT PCT	4.0	6.1	38.9	32.8	8.4	1.8	1.3	2.7	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.1	.0	.0	.0	*	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.3	.1	.6	.1	*	.1	.0	.0		1.2	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.1	.8	.1	*	.1	.0	.0	.0	1.5	
1<2	0-3	.0	.0	.1	.0	.0	.1	.0	.1	.0	.1	.6	
	4-10	.1	.0	.1	.3	.2	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.5	.1	.0	.0	.0	.0		.6	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.3	
	TOT %	.1	.0	.4	.9	.3	.1	.0	.1	.0	.1	2.2	
2<5	0-3	.1	.1	.6	.3	.2	*	.0	.3	.0	.1	1.8	
	4-10	.3	.1	3.0	1.5	.3	.2	.0	*	.0		5.5	
	11-21	.0	*	.9	.8	.2	.0	.0	.0	.0		1.9	
	22+	.0	.0	.1	.5	.0	.0	.0	.0	.0		.6	
	TOT %	.5	.2	4.6	3.0	.8	.2	.0	.3	.0	.1	9.8	
5<10	0-3	.6	.7	4.1	3.1	2.0	.1	.1	.2	.0	.8	11.7	
	4-10	.3	.7	7.1	5.2	1.0	.7	.1	.3	.0		15.4	
	11-21	.0	*	2.0	3.3	.2	*	.0	.0	.0		5.5	
	22+	.0	.0	.3	.6	.0	.0	.0	.0	.0		.8	
	TOT %	.8	1.4	13.4	12.0	3.2	.9	.2	.5	.0	.8	33.4	
10+	0-3	1.0	1.0	4.7	1.8	.2	.1	.6	.7	.0	3.1	13.2	
	4-10	1.4	2.8	9.7	7.5	2.6	.4	.5	.9	.0		25.8	
	11-21	.0	.2	5.1	5.6	1.2	.2	.0	.1	.0		12.5	
	22+	.0	.0	.3	.9	.0	.0	.0	.0	.0		1.2	
	TOT %	2.4	4.0	19.8	15.9	4.1	.7	1.0	1.7	.0	3.1	52.7	
	TOT OBS												721
	TOT PCT	4.0	6.0	38.3	32.8	8.6	2.0	1.4	2.7	.0	4.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	2.5	2.5	2.5	5.0	2.5	.0	5.0	.0	.0	20.0	80.0	40
06&09	.0	.0	.0	15.4	11.5	.0	.0	7.7	3.8	.0	38.5	61.5	26
12&15	.0	.0	.0	22.2	11.1	.0	.0	.0	.0	.0	33.3	66.7	18
18&21	.0	.0	6.3	6.3	18.8	6.3	.0	.0	.0	.0	37.5	62.5	16
TOT	0	1	2	10	10	2	0	4	1	0	30	70	100
PCT	.0	1.0	2.0	10.0	10.0	2.0	.0	4.0	1.0	.0	30.0	70.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	2.5	10.0	87.5	40
06&09	2.0	3.1	3.6	16.8	44.8	29.7	357
12&15	.0	.0	9.1	4.5	18.2	68.2	22
18&21	.0	.0	.6	2.7	28.8	67.9	333
TOT	7	11	17	71	264	382	752
PCT	.9	1.5	2.3	9.4	35.1	50.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	5.4	8.1	10.8	81.1	37
06&09	.0	.0	20.0	20.0	60.0	25
12&15	.0	.0	29.4	11.8	58.8	17
18&21	.0	6.7	20.0	20.0	60.0	15
TOT	0	3	16	14	64	96
PCT	.0	3.2	17.0	14.9	68.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
90/94	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
85/89	.0	.0	.0	.0	.3	1.6	1.1	.2	20	3.1
80/84	.0	.0	.0	.5	2.8	10.5	11.0	7.6	209	32.4
75/79	.0	.0	.0	.3	2.2	14.9	16.9	14.7	316	49.0
70/74	.0	.0	.0	.3	1.9	4.3	3.7	4.0	92	14.3
65/69	.0	.0	.0	.0	.2	.3	.3	.2	6	.9
TOTAL	0	0	0	8	47	205	213	172	645	100.0
PCT	.0	.0	.0	1.2	7.3	31.8	33.0	26.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.1	.0	.0	.0	.0	.0	.0	.0
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
.3	.5	.6	.5	.3	.0	.0	.3	.0	.6
2.0	2.4	12.2	9.0	1.9	1.1	.5	1.0	.0	2.2
2.0	2.7	20.1	15.9	4.6	.7	.6	1.4	.0	1.1
.2	.9	6.0	5.0	1.4	.2	.3	.0	.0	.3
.0	*	.5	.1	.2	.1	.0	.0	.0	.0
4.5	6.6	39.5	30.5	8.4	2.1	1.4	2.7	.0	4.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	86	86	79	72	66	66	78.7	44
06&09	88	85	83	78	73	70	63	77.6	363
12&15	83	82	82	74	66	61	61	74.3	23
18&21	97	87	84	78	72	69	69	78.1	335
TOT	97	87	83	78	72	69	61	77.6	765

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.0	15.2	39.4	36.4	6.1	77	33
06&09	.0	.6	5.0	26.4	35.1	32.9	84	322
12&15	.0	.0	7.1	42.9	50.0	.0	79	14
18&21	.0	2.0	8.8	35.7	30.3	23.1	81	294
TOT	0	9	48	209	221	176	82	663

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1883-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.3	.6	3	.0	.8
11/13	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.6
9	.0	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.0	.3	.0	.0	1.7	.0	7	.0	1.9
4	.0	.0	.0	.0	.6	1.1	.0	.0	6	.0	1.7
3	.0	.0	.0	.0	.3	1.9	.6	.0	10	.0	2.8
2	.0	.0	.0	.0	3.1	2.8	.3	.0	22	.0	6.1
1	.0	.0	.0	.6	2.5	3.9	.6	.0	27	.3	7.2
0	.0	.0	.3	1.7	10.8	2.5	.0	.0	55	.0	15.3
-1	.0	.0	.3	4.4	9.4	1.1	.0	.0	55	.0	15.3
-2	.0	.0	.8	7.2	8.1	.6	.0	.0	60	.0	16.7
-3	.0	.0	.6	3.9	6.9	.3	.0	.0	42	.0	11.7
-4	.0	.0	1.7	3.3	3.9	.6	.0	.0	34	.0	9.4
-5	.0	.0	1.9	.8	1.4	.3	.0	.0	16	.0	4.4
-6	.0	.3	.8	1.1	.8	.0	.0	.0	11	.0	3.1
-7/-8	.0	.3	.3	.8	.6	.0	.0	.0	7	.0	2.0
-9/-10	.3	.0	.3	.0	.0	.0	.0	.0	2	.0	.6
TOTAL	1		25		174		14			1	359
		2		87		54		3	360		
PCT	.3	.6	6.9	24.1	48.3	15.0	3.9	.9	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.8	.3	.0	.0	.0	4.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	.3	.0	.0	.0	4.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.4	1.9	.0	.0	.0	9.3
3-4	.0	3.2	10.6	.0	.0	.0	13.8
5-6	.0	.0	2.2	1.0	.0	.0	3.2
7	.0	.0	2.2	.0	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.6	17.0	1.0	.0	.0	28.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	2.9	4.2	.0	.0	.0	7.1
3-4	.0	8.7	12.8	1.3	.0	.0	22.8
5-6	.0	1.3	7.1	4.2	.0	.0	12.5
7	.0	.0	2.2	.0	.0	1.3	3.5
8-9	.0	.0	.0	3.8	.0	1.3	5.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.1	26.3	9.3	.0	2.6	52.2

PERIOD: (OVER-ALL) 1964-1977

SEPTEMBER

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10.5S 167.6E

TABLE 1a (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	1.3	4.2	.0	.0	.0	5.1
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	1.9	.0	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	7.1	.0	.0	.0	9.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.6	.0	.0	.0	.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	1.3	.0	.0	.0	1.3	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.3	1.3	.0	.0	.0	2.6	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.5	2.5	.0	.0	.0	.0	5.1	
1-2	.0	19.5	3.8	.0	.0	.0	22.8	
3-4	.0	12.7	29.1	1.3	.0	.0	43.0	
5-6	.0	1.3	10.1	5.1	.0	.0	16.5	
7	.0	.0	6.3	.0	.0	1.3	7.6	
8-9	.0	.0	.0	3.8	.0	1.3	5.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								79
TOT PCT	2.5	32.9	51.9	10.1	.0	2.5	100.0	

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	9.1	12.1	8.1	9.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	4
6-7	.0	2.0	6.1	9.0	12.1	7.1	2.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
8-9	.0	.0	4.0	2.0	4.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
10-11	.0	.0	1.0	3.0	.0	3.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
12-13	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	.0	3.0	.0	.0	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
TOTAL	1	14	23	18	26	12	4	0	1	0	0	0	0	0	0	0	0	0	0	99	5
PCT	1.0	14.1	23.2	18.2	26.3	12.1	4.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1883-1977

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	4.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	5.3		.0	90.7
NE	.0	2.1	.4	.0	.0	.0	.0	2.5	.0	.0	.0	.0	3.3		.0	94.2
E	5.4	4.1	1.6	.0	.0	.0	.4	12.4	.0	1.3	.4	.0	.6		.0	85.7
SE	5.7	5.0	3.1	.0	.0	.0	.4	15.3	.0	.9	.9	.0	.2		.0	83.6
S	6.1	2.0	9.1	.0	.0	.0	.0	17.3	.0	.0	.0	.0	.0		.0	82.7
SW	2.9	7.8	5.8	.0	.0	.0	.0	16.5	.0	.0	.0	.0	3.9		.0	79.6
W	21.2	.0	.0	.0	.0	.0	.0	21.2	.0	.0	.0	.0	.0		.0	78.8
NW	3.4	6.8	6.8	.0	.0	.0	.0	16.9	.0	.0	.0	.0	.0		.0	83.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.4	.0	.0	.0	.0	.0	.0	5.4	.0	.0	.0	.0	2.7		.0	91.9
TOT PCT	5.8	3.9	2.6	.0	.0	.0	.3	12.7	.0	.7	.4	.0	1.0		.0	85.6
TOT OBS:	686															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	7.7	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0		.0	92.3
06609	7.2	4.6	2.9	.0	.0	.0	.0	14.3	.0	1.3	.7	.0	1.0		.0	83.4
12615	.0	.0	.0	.0	.0	.0	5.6	5.6	.0	5.6	.0	.0	.0		.0	94.4
18621	5.7	3.4	2.8	.0	.0	.0	.3	12.2	.0	.0	.3	.0	1.1		.0	86.4
TOT PCT	6.0	3.8	2.7	.0	.0	.0	.3	12.8	.0	.7	.4	.0	1.0		.0	85.5
TOT OBS:	704															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	1.2	.5	.0	.0	.0		2.6	5.7	9.2	.0	4.8	2.4	8.8	.0	.0	1.8
NE	3.0	4.9	.6	.0	.0	.0		8.5	5.4	5.0	.0	.0	8.8	1.3	.0	.0	10.1
E	9.5	19.8	6.2	.4	.1	.0		36.0	7.4	30.0	.0	19.0	34.9	33.8	.0	32.1	39.0
SE	6.8	16.4	8.4	1.0	.0	.0		32.6	8.6	45.0	.0	39.3	31.2	37.5	.0	58.3	30.4
S	1.4	4.1	1.6	.1	.0	.0		7.2	7.8	10.8	.0	32.1	7.2	8.8	.0	9.5	4.9
SW	1.7	2.0	.1	.0	.0	.0		3.8	4.5	.0	.0	4.8	4.1	.0	.0	.0	4.3
W	1.6	.5	.1	.0	.0	.0		2.2	3.3	.0	.0	.0	1.8	5.0	.0	.0	3.0
NW	1.1	1.1	.0	.0	.0	.0		2.1	4.2	.0	.0	.0	3.0	5.0	.0	.0	1.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0	.0	.0	.0	3.6	.0	.0	.0	4.9
TOT OBS	228	367	128	11	1	0	735		6.9	30	0	21	318	20	0	21	325
TOT PCT	31.0	49.9	17.4	1.5	.1	.0		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.9	.4	.2	.0	.0		2.6	3.7	9.2	2.5	8.8	1.7
NE	6.1	2.3	.1	.0	.0		8.5	3.4	5.0	8.3	1.3	9.5
E	20.6	12.3	2.8	.1	.1		36.0	7.4	30.0	33.9	33.8	38.6
SE	15.4	13.2	3.7	.3	.0		32.6	8.6	45.0	31.7	37.5	32.1
S	4.0	2.4	.7	.0	.0		7.4	7.8	10.8	8.8	8.8	5.2
SW	2.9	.9	*	.0	.0		3.8	4.5	.0	4.1	.0	4.0
W	2.1	.0	.1	.0	.0		2.2	3.3	.0	1.7	5.0	2.8
NW	1.7	.4	.0	.0	.0		2.1	4.2	.0	2.8	5.0	1.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	.0	6.2	.0	4.6
TOT OBS	440	234	57	3	1	735		6.9	30	339	20	346
TOT PCT	59.9	31.8	7.8	.4	.1		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1883-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	.0	.0	43.3	50.0	6.7	.0	.0	13.5	100.0	30
06609	6.2	27.1	49.9	15.6	1.2	.0	.0	6.5	100.0	339
12615	.0	5.0	30.0	60.0	5.0	.0	.0	13.5	100.0	20
18621	4.6	28.3	51.7	13.9	1.2	.3	.0	6.4	100.0	346
TOT	37	191	367	128	11	1	0	6.9		735
PCT	5.0	26.0	49.9	17.4	1.5	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	2.2	1.3	1.3		4.3
NE	.3	1.9	.0	.0		3.5
E	10.4	4.4	8.5	4.4		3.9
SE	10.8	11.7	13.0	9.5		4.6
S	10.4	.0	.0	3.8		3.2
SW	.0	.0	.0	1.3		8.0
W	.0	1.3	.0	.0		3.0
NW	.0	.0	1.3	.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	.0	.0		1.0
TOT OBS	27	17	19	16	79	4.2
TOT PCT	34.2	21.5	24.1	20.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	4.4	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
E	1.3	.0	.0	3.2	.9	2.2	.0	.0	.0	.0	20.3	
SE	1.3	.0	1.3	8.2	1.6	2.8	.0	1.3	.0	.0	28.5	
S	.0	.0	.0	1.3	.0	1.3	1.3	.0	.0	.0	10.4	
SW	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
NW	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
TOT OBS	2	0	2	11	3	5	1	1	0	0	54	79
TOT PCT	2.5	.0	2.5	13.9	3.8	6.3	1.3	1.3	.0	.0	68.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	1.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5
* OR >2000	6.3	8.8	8.8	8.8	8.8	8.8	8.8	8.8
* OR >1000	7.5	11.3	12.5	12.5	12.5	12.5	12.5	12.5
* OR >600	12.5	26.3	27.5	27.5	27.5	27.5	27.5	27.5
* OR >300	12.5	27.5	30.0	30.0	30.0	30.0	30.0	30.0
* OR >150	12.5	27.5	30.0	30.0	30.0	30.0	30.0	30.0
* OR > 0	13.8	28.8	31.3	32.5	32.5	32.5	32.5	32.5
TOTAL	11	23	25	26	26	26	26	26

TOTAL NUMBER OF OBS: 80 PCT FREQ NH <5/8: 67.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.6	20.5	16.9	20.5	6.0	7.2	8.4	3.6	13.3	.0	83

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1883-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.2	.1	.2	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.2	.1	.2	.0	.0	.0	.0	.6	
1/2<1	PCP	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.1	.3	.3	.0	.1	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.5	.3	.0	.1	.0	.0	.0	1.0	
2<5	PCP	.0	.0	1.0	.3	.3	.3	.1	*	.0	.1	2.2	
	NO PCP	.3	.8	3.4	2.1	1.0	.3	.3	.6	.0	.3	9.1	
	TOT %	.3	.8	4.4	2.4	1.3	.6	.4	.6	.0	.4	11.2	
5<10	PCP	.1	.2	2.5	3.3	.4	.2	.1	.0	.0	.0	6.9	
	NO PCP	.1	2.4	7.9	9.5	1.0	1.6	.3	.3	.0	.6	23.8	
	TOT %	.2	2.6	10.4	12.9	1.4	1.8	.4	.3	.0	.6	30.7	
10+	PCP	.0	.0	.5	.7	.1	.0	.1	.3	.0	.1	1.9	
	NO PCP	2.3	5.4	19.2	15.7	3.9	1.2	1.3	.9	.0	4.2	54.2	
	TOT %	2.3	5.4	19.7	16.4	4.1	1.2	1.4	1.2	.0	4.4	56.1	
	TOT OBS												685
	TOT PCT	2.7	8.8	35.0	32.6	7.2	3.8	2.4	2.2	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	1.4	1.1	.0	.4	.0	.0	.0		3.2	
	11-21	.0	.0	.0	.0	.1	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	1.4	1.1	.1	.4	.0	.0	.0	.0	3.3	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.5	.2	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.1	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0	1.0	
1<2	0-3	.0	.0	.1	.6	.1	*	.1	.1	.0	.0	1.1	
	4-10	.0	*	.6	.5	.2	.0	.0	.0	.0		1.4	
	11-21	.0	.0	.2	.3	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	1.0	1.4	.3	*	.1	.1	.0	.0	3.0	
2<5	0-3	.1	.3	.8	.1	.3	.3	.1	.3	.0	.4	2.8	
	4-10	.0	.4	2.7	1.5	.7	.2	.3	.3	.0		6.1	
	11-21	.1	*	.7	.5	.3	*	.0	.0	.0		1.7	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.2	.7	4.2	2.3	1.2	.6	.4	.6	.0	.4	10.6	
5<10	0-3	.1	1.0	3.1	2.5	.1	.8	.4	.3	.0	.6	9.0	
	4-10	.0	1.2	5.6	7.1	1.1	.9	.0	.0	.0		15.8	
	11-21	.1	.2	1.2	2.1	.1	.0	.0	.0	.0		3.7	
	22+	.0	.0	.1	.4	.0	.0	.0	.0	.0		.6	
	TOT %	.2	2.4	10.0	12.2	1.3	1.7	.4	.3	.0	.6	29.1	
10+	0-3	.7	1.7	5.4	3.5	.8	.6	1.0	.3	.0	4.1	18.2	
	4-10	1.2	3.1	8.6	6.0	2.1	.5	.2	.8	.0		22.5	
	11-21	.3	.3	4.1	5.5	1.0	.0	.1	.0	.0		11.4	
	22+	.0	.0	.4	.4	.1	.0	.0	.0	.0		1.0	
	TOT %	2.1	5.1	18.6	15.5	4.0	1.1	1.3	1.2	.0	4.1	53.0	
	TOT OBS												726
	TOT PCT	2.6	8.6	35.7	32.6	7.0	3.9	2.3	2.2	.0	5.1	100.0	

OCTOBER

PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1883-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	15.4	.0	7.7	.0	.0	.0	.0	23.1	76.9	26
06&09	10.0	.0	5.0	10.0	5.0	.0	5.0	.0	.0	.0	35.0	65.0	20
12&15	.0	.0	.0	11.8	11.8	5.9	.0	.0	.0	.0	29.4	70.6	17
18&21	.0	.0	5.3	21.1	.0	10.5	.0	5.3	.0	.0	42.1	57.9	19
TOT	2	0	2	12	3	5	1	1	0	0	26	56	82
PCT	2.4	.0	2.4	14.6	3.7	6.1	1.2	1.2	.0	.0	31.7	68.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	15.4	84.6	26
06&09	8.8	1.4	5.9	16.7	37.1	30.0	353
12&15	.0	.0	.0	5.3	21.1	73.7	19
18&21	.3	.6	.3	5.9	24.0	68.9	354
TOT	32	7	22	81	224	386	752
PCT	4.3	.9	2.9	10.8	29.8	51.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <5OVD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	16.0	8.0	76.0	25
06&09	10.0	15.0	25.0	10.0	65.0	20
12&15	.0	.0	18.8	12.5	68.8	16
18&21	.0	5.3	26.3	15.8	57.9	19
TOT	2	4	17	9	54	80
PCT	2.5	5.0	21.3	11.3	67.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.3	.3	.5	.2	.3	10	1.6
85/89	.0	.0	.0	.2	1.0	1.9	2.1	.8	37	5.9
80/84	.0	.0	.0	.0	4.1	15.6	17.2	8.6	286	45.6
75/79	.0	.0	.0	.0	2.4	11.3	13.2	12.3	246	39.2
70/74	.0	.0	.0	.0	.6	1.3	1.6	4.1	48	7.7
TOTAL	0	0	0	3	53	192	215	164	627	100.0
PCT	.0	.0	.0	.5	8.5	30.6	34.3	26.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.4	.8	.0	.0	.2	.2	.0	.0
.1	.6	1.8	1.6	.6	.0	.2	.1	.0	1.0
4.0	5.7	17.3	12.5	2.6	1.3	.3	.8	.0	4.1
1.7	2.4	12.9	13.6	3.3	2.0	1.5	1.1	.0	.8
.0	.4	2.8	3.1	1.0	.4	.1	*	.0	.0
2.8	9.2	35.1	31.5	7.4	3.6	2.3	2.2	.0	5.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	84	84	80	75	70	70	79.5	30
06&09	90	87	84	79	73	71	71	78.9	350
12&15	82	81	81	77	73	73	73	77.7	21
18&21	97	91	86	80	74	72	70	79.7	356
TOT	97	90	85	79	73	71	70	79.3	757

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	22.7	45.5	22.7	9.1	76	22
06&09	.0	.3	7.0	28.0	37.0	27.7	84	300
12&15	.0	.0	17.6	23.5	35.3	23.5	81	17
18&21	.0	1.0	8.1	30.9	33.9	26.1	83	307
TOT	0	4	54	193	226	169	83	646

OCTOBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1883-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.5S 167.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 /2	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.3	.0	1	.0	.3
11/13	.0	.0	.0	.0	.0	.8	3	.0	.8
9/10	.0	.0	.0	.0	.0	.8	3	.0	.8
7/8	.0	.0	.3	.0	.8	.5	6	.0	1.5
6	.0	.0	.0	.3	.3	.3	3	.0	.8
5	.0	.3	.3	.5	.5	.0	6	.0	1.5
4	.0	.0	.3	.8	.5	.0	6	.0	1.5
3	.3	.0	.8	1.0	.3	.0	9	.0	2.3
2	.0	.0	2.3	3.6	1.0	.0	27	.0	6.9
1	.0	.5	4.1	5.1	.5	.0	40	.3	10.0
0	.8	1.0	12.3	6.6	.0	.0	81	.3	20.5
-1	.3	2.6	6.6	3.1	.0	.0	49	.0	12.5
-2	.3	5.1	7.9	1.5	.0	.0	58	.0	14.8
-3	.3	2.0	4.3	1.5	.0	.0	32	.0	8.2
-4	.5	1.3	3.1	1.0	.0	.0	23	.0	5.9
-5	.0	2.3	1.3	.8	.0	.0	17	.0	4.3
-6	.8	1.8	.3	.3	.0	.0	12	.0	3.1
-7/-8	.3	1.5	1.0	.3	.0	.0	12	.0	3.1
-9/-10	.3	.0	.3	.3	.0	.0	3	.0	.8
TOTAL	14	72	176	104	16	9	391	2	389
PCT	3.6	18.4	45.0	26.6	4.1	2.3	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	2.6	2.6	.0	.0	.0	5.2
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	4.0	.0	.0	.0	8.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.4	.4	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	.7	.0	.0	.0	2.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.6	.0	.0	.0	.0	2.6
3-4	.0	2.9	7.4	1.1	.0	.0	11.4
5-6	.0	.0	4.8	.0	.0	.0	4.8
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	4.0	2.2	.0	.0	6.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	17.6	3.3	.0	.0	26.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.8	4.4	.0	.0	.0	6.3
3-4	.0	4.4	10.7	.4	.0	.0	15.4
5-6	.0	.0	9.6	.0	.0	.0	9.6
7	.0	.0	2.9	2.9	.0	.0	5.9
8-9	.0	.0	1.8	2.2	.0	.0	4.0
10-11	.0	.0	1.5	.4	.0	.0	1.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.6	30.9	5.9	.0	.0	43.4

PERIOD: (OVER-ALL) 1963-1977

OCTOBER

TABLE 18 (CONT)

AREA 0012 NEW HEBRIDES ISLANDS
16.5S 167.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.5	1.5	.0	.0	.0	2.9	.0	1.5	.0	.0	.0	1.5	
7	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	8.5	1.1	.0	.0	13.6	.0	1.5	.0	.0	.0	.0	1.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	1.5	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	.0	1.5	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	5.9	.0	.0	.0	.0	7.4	
1-2	.0	8.8	7.4	.0	.0	.0	16.2	
3-4	.0	7.4	22.1	1.5	.0	.0	30.9	
5-6	.0	2.9	16.2	.0	.0	.0	19.1	
7	.0	.0	7.4	2.9	.0	.0	10.3	
8-9	.0	.0	7.4	4.4	.0	.0	11.8	
10-11	.0	.0	1.5	1.5	.0	.0	2.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	1.5	.0	.0	.0	1.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								68
TOT PCT	1.5	25.0	63.2	10.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	6.3	7.5	6.3	7.5	1.3	1.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
6-7	.0	.0	7.5	3.8	8.8	2.5	2.5	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
8-9	.0	1.3	3.8	3.8	.0	1.3	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
10-11	.0	.0	1.3	.0	1.3	3.8	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	9
12-13	.0	.0	5.0	2.5	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.3	.0	.0	1.3	1.3	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
TOTAL	2	6	20	14	15	10	3	1	6	3	0	0	0	0	0	0	0	0	0	80	6
PCT	2.5	7.5	25.0	17.5	18.8	12.5	3.8	1.3	7.5	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1838-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.4S 167.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.4	4.6	.0	.0	.0	.0	.0	8.0	.0	4.6	.0	.0	9.2		.0	78.2
NE	4.2	6.7	.0	.0	.0	.0	.0	10.9	.0	.0	.0	.0	6.7		.0	82.4
E	4.3	2.6	2.0	.0	.0	.0	.0	8.8	.6	1.1	.3	.0	1.1		.0	88.1
SE	5.1	5.7	.2	.0	.0	.0	.0	11.0	.3	.1	1.1	.0	2.7		.0	84.6
S	7.2	3.2	2.4	.0	.0	.0	.0	12.8	.0	5.6	.0	.0	.0		.0	84.8
SW	2.9	.0	2.9	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0		.0	94.1
W	22.7	.0	.0	.0	.0	.0	.0	22.7	.0	.0	.0	.0	.0		.0	77.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1		.0	92.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.6	.0	4.2	.0	.0	.0	.0	9.7	.0	2.8	.0	.0	1.4		.0	86.1
TOT PCT	5.3	3.6	1.4	.0	.0	.0	.0	10.2	.3	1.2	.5	.0	2.4		.0	85.6
TOT OBS:	590															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	.0	.0	.0	.0	7.4	.0	3.7	.0	14.6		.0	74.1
06&09	8.0	5.3	1.9	.0	.0	.0	.0	15.2	.0	1.5	.0	.0	.4		.0	83.3
12&15	8.7	.0	4.3	.0	.0	.0	.0	13.0	.0	13.0	.0	.0	.0		.0	73.9
18&21	3.7	2.4	1.0	.0	.0	.0	.0	7.1	.0	.0	.7	.0	3.0		.0	89.2
TOT PCT	5.6	3.4	1.5	.0	.0	.0	.0	10.5	.3	1.1	.5	.0	2.3		.0	85.4
TOT OBS:	611															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.7	1.7	.1	.0	.0	.0		3.4	4.9	.0	.0	5.6	2.6	3.4	.0	.0	4.9
NE	1.7	2.9	.6	*	.0	.0		5.2	5.5	3.7	.0	11.1	5.6	1.1	.0	.9	5.6
E	6.4	15.3	7.4	.8	.0	.0		29.9	8.4	42.6	50.0	36.1	30.4	38.6	.0	49.1	25.2
SE	4.5	21.7	10.0	1.2	.3	.0		37.6	9.2	50.0	50.0	31.9	36.1	39.8	.0	42.6	37.7
S	1.4	2.7	1.3	.0	.0	.0		5.4	7.8	3.7	.0	4.2	5.4	3.4	.0	.0	6.4
SW	.3	.7	.5	.0	.0	.0		1.5	7.5	.0	.0	.0	1.3	.0	25.0	3.7	1.7
W	1.9	.8	.0	.0	.0	.0		2.7	3.6	.0	.0	.0	3.4	.0	75.0	3.7	2.3
NW	1.7	.4	.2	.0	.0	.0		2.4	4.3	.0	.0	.0	3.5	.0	.0	.0	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.9							11.9	.0	.0	.0	11.1	11.8	13.6	.0	.0	14.3
TOT OBS	204	299	130	13	2	0	648		7.2	27	1	18	279	22	1	27	273
TOT PCT	31.5	46.1	20.1	2.0	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	1.0	.0	.0	.0		3.4	4.6	.0	2.8	3.3	4.4
NE	3.8	1.4	.1	.0	.0		5.2	5.5	3.6	5.9	1.1	5.0
E	14.5	12.2	3.1	.1	.0		29.9	8.4	42.9	30.7	37.0	27.3
SE	15.9	17.5	3.9	.3	.0		37.6	9.2	50.0	35.9	38.0	38.2
S	2.5	2.5	.5	.0	.0		5.4	7.8	3.6	5.3	3.3	5.8
SW	.8	.6	.0	.0	.0		1.5	7.5	.0	1.2	1.1	1.9
W	2.2	.5	.0	.0	.0		2.7	3.6	.0	3.2	3.3	2.4
NW	2.0	.2	.2	.0	.0		2.4	4.3	.0	3.3	.0	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.9						11.9	.0	.0	11.8	13.0	13.0
TOT OBS	363	232	50	3	0	648		7.2	28	297	23	300
TOT PCT	56.0	35.8	7.7	.5	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1886-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.0	42.9	53.6	.0	3.6	.0	12.6	100.0	28
06&09	11.8	22.2	45.5	18.9	1.7	.0	.0	6.7	100.0	297
12&15	13.0	.0	47.8	30.4	8.7	.0	.0	11.0	100.0	23
18&21	13.0	20.3	47.0	17.3	2.0	.3	.0	6.9	100.0	300
TOT	77	127	299	130	13	2	0	7.2		648
PCT	11.9	19.6	46.1	20.1	2.0	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.2	.9		6.8
NE	.0	1.2	1.5	1.5		6.0
E	7.4	9.6	19.4	5.6		4.7
SE	7.4	9.0	17.6	7.1		4.9
S	.0	1.2	.9	.9		5.4
SW	.0	1.2	.0	.3		4.8
W	.0	.0	.0	.9		8.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	2.5	1.2	1.2	.0		3.0
TOT OBS	14	19	34	14	81	4.9
TOT PCT	17.3	23.5	42.0	17.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	1.2	
.0	.0	.0	.0	.3	1.2	.0	.0	.0	.0	2.8	
1.2	.0	1.2	4.0	1.2	1.2	.0	.0	.0	.0	33.0	
.0	.0	3.7	3.7	4.9	2.5	1.2	.0	.0	.0	25.0	
.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	2.2	
.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	1.2	
.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	3.7	
1	0	4	8	7	4	1	0	0	0	56	81
1.2	.0	4.9	9.9	8.6	4.9	1.2	.0	.0	.0	69.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
* OR >2000	3.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2
* OR >1000	8.4	14.5	15.7	15.7	15.7	15.7	15.7	15.7
* OR >600	14.5	22.9	24.1	25.3	25.3	25.3	25.3	25.3
* OR >300	15.7	26.5	28.9	30.1	30.1	30.1	30.1	30.1
* OR >150	15.7	26.5	28.9	30.1	30.1	30.1	30.1	30.1
* OR > 0	16.9	27.7	30.1	31.3	31.3	31.3	31.3	31.3
TOTAL	14	23	25	26	26	26	26	26

TOTAL NUMBER OF OBS: 83 PCT FREQ NH <5/8: 68.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.2	10.9	27.2	9.8	20.7	7.6	9.8	3.3	7.6 1.1	92

PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1886-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.5	*	.1	*	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.5	.2	.1	*	.0	.0	.0	.0	.8	
1/2<1	PCP	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.1	.6	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.3	.8	.0	.0	.0	.0	.0	.0	1.0	
1<2	PCP	.0	.0	.3	.2	.0	.0	.0	.0	.0	.2	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.2	.0	.0	.0	.0	.0	.2	.7	
2<5	PCP	.0	.2	.3	.5	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.1	.1	1.9	1.6	.0	*	.3	.2	.0	.2	4.4	
	TOT %	.1	.3	2.2	2.2	.0	*	.3	.2	.0	.2	5.4	
5<10	PCP	.3	.4	.8	2.0	.3	*	.5	.0	.0	.3	4.6	
	NO PCP	.4	1.3	8.3	9.6	.6	.3	.4	.8	.0	1.7	23.4	
	TOT %	.7	1.7	9.1	11.5	1.0	.4	.9	.8	.0	2.0	28.0	
10+	PCP	.0	.0	.6	1.0	.2	.0	.2	.0	.0	.7	2.7	
	NO PCP	2.8	3.1	16.9	21.4	4.0	1.0	1.5	1.4	.0	9.2	61.3	
	TOT %	2.8	3.1	17.5	22.4	4.2	1.0	1.7	1.4	.0	9.8	64.0	
	TOT OBS												589
	TOT PCT	3.7	5.1	29.8	37.3	5.3	1.4	2.8	2.4	.0	12.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.3	*	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.2	1.7	.8	.1	*	.0	.0	.0		2.9	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	2.2	.9	.1	*	.0	.0	.0	.0	3.4	
1/2<1	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.2	.2	.4	.0	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.2	.7	.0	.0	.0	.0	.0	.0	1.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.3	
	4-10	.0	.0	.2	.3	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.1	.9	.1	.0	.0	.0	.0		1.1	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.3	1.4	.1	.0	.0	.2	.0	.2	2.1	
2<5	0-3	.0	.0	.1	*	.0	.0	.1	.2	.0	.2	.6	
	4-10	.1	.1	1.7	1.3	.0	*	.1	.0	.0		3.4	
	11-21	.0	.2	.3	.7	.0	.0	.0	.0	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	2.1	2.1	.0	*	.2	.2	.0	.2	5.2	
5<10	0-3	.5	.9	2.6	1.1	.2	.0	.7	.6	.0	1.9	8.4	
	4-10	.2	.6	4.2	6.3	.5	.4	.1	.2	.0		12.4	
	11-21	.0	.1	1.7	2.6	.2	.0	.0	.0	.0		4.7	
	22+	.0	.0	.2	1.0	.0	.0	.0	.0	.0		1.1	
	TOT %	.7	1.6	8.6	10.9	.9	.4	.8	.7	.0	1.9	26.7	
10+	0-3	1.3	.8	3.5	3.4	1.3	.3	1.0	.9	.0	9.5	22.0	
	4-10	1.4	1.8	7.3	11.8	1.8	.2	.6	.2	.0		25.0	
	11-21	.1	.4	5.5	5.7	1.0	.5	.0	.2	.0		13.4	
	22+	.0	*	.7	.4	.0	.0	.0	.0	.0		1.1	
	TOT %	2.7	3.0	17.0	21.3	4.2	.9	1.6	1.3	.0	9.5	61.6	
	TOT OBS												619
	TOT PCT	3.5	5.1	30.5	37.3	5.3	1.4	2.7	2.4	.0	11.8	100.0	

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PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1886-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.6	.0	10.7	10.7	3.6	.0	.0	.0	28.6	71.4	28
06&09	.0	.0	10.5	15.8	5.3	5.3	.0	.0	.0	.0	36.8	63.2	19
12&15	.0	.0	4.5	18.2	9.1	.0	.0	.0	.0	.0	31.8	68.2	22
18&21	4.5	.0	.0	4.5	4.5	.0	4.5	.0	.0	.0	18.2	81.8	22
TOT	1	0	4	8	7	4	2	0	0	0	26	65	91
PCT	1.1	.0	4.4	8.8	7.7	4.4	2.2	.0	.0	.0	28.6	71.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	3.6	21.4	75.0	28
06&09	9.4	1.0	3.7	7.1	34.0	44.8	297
12&15	.0	.0	.0	.0	26.1	73.9	23
18&21	.7	1.3	.7	4.3	22.6	70.4	301
TOT	30	7	13	35	181	383	649
PCT	4.6	1.1	2.0	5.4	27.9	59.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <5OYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	4.2	8.3	25.0	66.7	24
06&09	.0	11.1	27.8	11.1	61.1	18
12&15	.0	5.0	25.0	10.0	65.0	20
18&21	4.8	4.8	9.5	9.5	81.0	21
TOT	1	5	14	12	57	83
PCT	1.2	6.0	16.9	14.5	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
90/94	.0	.0	.0	.0	.5	.0	.0	.0	3	.5
85/89	.0	.0	.0	.5	1.3	2.2	3.1	1.1	45	8.2
80/84	.0	.0	.0	.4	4.4	16.6	17.6	9.0	262	47.9
75/79	.0	.0	.0	.4	2.9	11.2	15.0	10.6	219	40.0
70/74	.0	.0	.0	.2	.2	.7	.9	1.1	17	3.1
TOTAL	0	0	1	8	51	168	200	119	547	100.0
PCT	.0	.0	.2	1.5	9.3	30.7	36.6	21.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
.0	.0	.0	*	.1	.2	.0	.2	.0	.0
.1	.6	2.1	2.5	.5	.1	.5	.2	.0	1.6
2.0	2.1	13.4	18.3	2.6	.6	1.5	.9	.0	6.6
1.5	1.8	13.5	14.0	2.2	.3	.9	1.1	.0	4.6
.0	.0	.7	1.3	.2	.4	.1	.1	.0	.4
3.7	4.6	29.8	36.2	5.6	1.6	3.0	2.4	.0	13.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	88	87	82	77	77	77	81.8	29
06&09	89	88	85	80	75	70	70	79.6	296
12&15	82	81	81	79	76	70	70	78.9	23
18&21	97	91	86	80	75	73	71	80.5	308
TOT	97	89	85	80	75	72	70	80.1	656

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	7.7	30.8	38.5	19.2	3.8	73	26
06&09	.0	.4	5.8	28.3	38.4	27.1	84	258
12&15	.0	.0	10.5	31.6	47.4	10.5	80	19
18&21	.0	3.0	11.2	31.7	35.1	19.0	80	268
TOT	0	11	55	174	207	124	82	571

PERIOD: (PRIMARY) 1942-1977
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.0	.6	.0	4	.0	1.2
6	.0	.0	.0	.0	.3	.0	.0	1	.0	.3
5	.0	.0	.3	.9	1.8	.0	.0	10	.0	3.0
4	.0	.0	.6	1.8	1.2	.0	.0	12	.0	3.6
3	.0	.6	.6	1.5	.6	.0	.0	11	.3	3.0
2	.0	.0	1.8	4.4	.3	.0	.0	22	.0	6.5
1	.0	.0	3.6	6.8	1.2	.3	.0	40	.6	11.2
0	.0	.6	12.1	3.8	.0	.0	.0	56	.0	16.6
-1	.0	1.2	8.9	5.0	.6	.0	.0	53	.0	15.7
-2	.0	3.0	6.5	3.8	.0	.0	.0	45	.0	13.3
-3	.0	1.5	7.4	2.4	.0	.0	.0	38	.0	11.2
-4	.6	1.8	4.4	1.2	.0	.0	.0	27	.0	8.0
-5	.0	.9	.9	.6	.0	.0	.0	8	.0	2.4
-6	.0	.0	1.2	.3	.0	.0	.0	5	.0	1.5
-7/-9	.0	.0	.3	.0	.0	.0	.0	1	.0	.3
-9/-10	.0	.3	.6	.0	.0	.0	.0	3	.0	.9
TOTAL	2	33	166	110	22	4	1	338	3	335
PCT	.6	9.8	49.1	32.5	6.5	1.2	.3	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.3	.0	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.0	.0	.0	.0	2.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	1.3	1.6	.0	.0	.0	3.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	1.6	.0	.0	.0	4.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	11.5	3.9	.0	.0	.0	15.5
3-4	.0	6.6	10.5	1.0	.0	.0	18.1
5-6	.0	.0	6.6	.0	.0	.0	6.6
7	.0	1.0	.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.1	21.1	1.0	.0	.0	41.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.3	.0	.0	.0	.0	2.6
1-2	.0	9.5	2.6	.0	.0	.0	12.2
3-4	.0	9.2	10.5	.3	.0	.0	20.1
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.3	1.3	.0	.0	.0	1.6
8-9	.0	.0	1.3	.0	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	1.3	.0	.0	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	20.4	17.4	.3	.0	.0	39.5

PERIOD: (OVER-ALL) 1963-1977 NOVEMBER AREA 0012 NEW HEBRIDES ISLANDS

TABLE 18 (CONT) 16.4S 167.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	2.6	.0	.0	.0	3.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	1.3	.0	.0	.0	1.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.0	.0	.0	.0	1.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	93.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	2.6	.0	.0	.0	.0	10.4	
1-2	.0	26.0	6.5	.0	.0	.0	32.5	
3-4	.0	16.9	24.7	1.3	.0	.0	42.9	
5-6	.0	1.3	7.8	.0	.0	.0	9.1	
7	.0	1.3	1.3	.0	.0	.0	2.6	
8-9	.0	.0	1.3	.0	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	1.3	.0	.0	.0	1.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								77
TOT PCT	7.8	48.1	42.9	1.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1953-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	11.3	17.5	7.5	2.5	.0	1.3	2.5	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	4
6-7	.0	1.3	5.0	10.0	11.3	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	3.8	2.5	1.3	3.8	1.3	6.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	7
10-11	.0	1.3	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
12-13	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	0
TOTAL	1	14	20	16	16	1	8	3	1	0	0	0	0	0	0	0	0	0	0	80	5
PCT	1.3	17.5	25.0	20.0	20.0	1.3	10.0	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1857-1977

AREA 0012 NEW HEBRIDES ISLANDS
16.5S 167.+E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.7	3.4	.0	.0	.0	.0	.0	10.1	.0	.0	.0	.0	.0	.0	.0	89.9
NE	5.8	3.6	1.8	.0	.0	.0	.0	11.1	1.8	.0	.0	.0	3.6	.0	.0	83.6
E	4.4	.8	1.6	.0	.0	.0	.0	6.8	.8	2.8	.0	.0	.0	.0	.0	90.3
SE	1.5	2.6	.9	.0	.0	.0	.0	4.6	2.6	.7	.0	.0	1.8	.0	.0	90.3
S	2.8	.9	.0	.0	.0	.0	.0	3.7	.0	5.1	.0	.0	.0	.0	.0	91.2
SW	5.6	1.4	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	2.8	.0	.0	90.2
W	2.3	1.5	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	3.0	.0	.0	93.2
NW	5.4	4.3	.0	.0	.0	.0	.0	9.8	.0	.0	.0	.0	.0	.0	.0	90.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	98.1
TOT PCT	3.6	1.7	.8	.0	.0	.0	.0	6.1	1.0	1.3	.0	.0	1.1	.0	.0	90.6
TOT OBS:	524															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0		.0	95.0
06&09	5.1	4.1	.8	.0	.0	.0	.0	8.1	.0	2.1	.0	.0	1.3		.0	89.0
12&15	.0	.0	.0	.0	.0	.0	.0	.0	9.5	14.3	.0	.0	.0		.0	76.2
18&21	2.6	1.8	1.5	.0	.0	.0	.0	5.9	.7	.0	.0	.0	1.5		.0	91.9
TOT PCT	3.5	1.8	1.1	.0	.0	.0	.0	6.4	.9	1.5	.0	.0	1.3		.0	90.2
TOT OBS:	549															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	2.1	.9	.0	.2	.1		5.2	7.4	3.6	.0	.0	6.0	.0	.0	5.3	5.4
NE	3.4	5.7	.9	.2	.0	.0		10.3	5.9	16.7	.0	6.3	9.5	5.7	.0	10.5	11.3
E	4.4	13.5	6.0	.1	.0	.0		24.0	8.4	31.0	.0	31.3	22.5	47.7	100.0	36.8	21.4
SE	5.4	12.7	4.6	.6	.0	.0		23.3	7.9	21.4	62.5	20.3	23.0	37.5	.0	32.9	21.8
S	2.8	5.4	1.3	.1	.0	.0		9.6	6.7	16.7	37.5	21.9	8.7	.0	.0	3.9	10.3
SW	2.5	3.2	.9	.0	.0	.0		6.5	5.8	.0	.0	1.6	8.0	.0	.0	5.3	6.6
W	2.9	2.4	.3	.0	.0	.0		5.7	4.4	.0	.0	6.3	4.5	.0	.0	.0	8.2
NW	2.8	1.5	.1	.2	.0	.1		4.7	5.5	1.2	.0	.0	5.0	4.5	.0	5.3	4.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.7							10.7	.0	9.9	.0	12.5	12.6	4.5	.0	.0	10.2
TOT OBS	218	274	89	7	1	1	589		6.4	21	2	16	253	22	1	19	255
TOT PCT	37.0	46.5	14.9	1.2	.2	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	1.2	.0	.2	.1		5.2	7.4	3.3	5.7	.0	5.4
NE	7.1	2.7	.5	.0	.0		10.3	5.9	15.2	9.3	5.4	11.2
E	9.3	13.1	1.7	.0	.0		24.0	8.4	28.3	23.0	50.0	22.4
SE	11.4	9.9	1.8	.2	.0		23.3	7.9	25.0	22.9	35.9	22.5
S	5.5	3.4	.8	.0	.0		9.6	6.7	18.5	9.5	.0	9.9
SW	4.5	1.8	.2	.0	.0		6.5	5.8	.0	7.6	.0	6.5
W	4.7	1.0	.0	.0	.0		5.7	4.4	.0	4.6	.0	7.7
NW	3.7	.6	.2	.0	.1		4.7	5.5	1.1	4.7	4.3	4.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.7						10.7	.0	8.7	12.6	4.3	9.5
TOT OBS	357	199	30	2	1	589		6.4	23	269	23	274
TOT PCT	60.6	33.8	5.1	.3	.2		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1857-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	8.7	.0	43.5	39.1	8.7	.0	.0	11.2	100.0	23
06&09	12.6	24.9	50.6	10.8	.7	.4	.0	5.8	100.0	269
12&15	4.3	8.7	43.5	43.5	.0	.0	.0	10.1	100.0	23
18&21	7.5	31.4	43.1	14.6	1.1	.0	.4	6.3	100.0	274
TOT	63	155	274	88	7	1	1	6.4		589
PCT	10.7	26.3	46.5	14.9	1.2	.2	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.6	1.2	.0		4.8
NE	3.2	2.0	3.6	.0		3.6
E	7.9	15.7	2.8	7.9		4.0
SE	7.1	4.0	15.1	1.6		4.7
S	8.3	2.8	2.4	.0		2.3
SW	.4	1.6	.0	.0		2.8
W	.0	.0	1.6	.0		6.0
NW	.0	.0	.4	.0		6.0
VAR	.0	.0	.0	.0		.0
CALM	4.8	3.2	.0	.0		2.4
TOT OBS	20	20	17	6	63	3.9
TOT PCT	31.7	31.7	27.0	9.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	
.0	.0	.0	.0	3.2	1.6	.0	1.6	.0	.0	29.0	
.0	.0	.0	.0	3.2	1.6	.4	.0	.0	.0	22.6	
.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	12.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	
0	0	0	2	3	1	2	0	0	0	55	63
.0	.0	.0	3.2	4.8	1.6	3.2	.0	.0	.0	87.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >50YD	≥ OR >0
≥ OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
≥ OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
≥ OR >3500	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
≥ OR >2000	4.5	6.1	6.1	6.1	6.1	6.1	6.1	6.1
≥ OR >1000	9.1	10.6	10.6	10.6	10.6	10.6	10.6	10.6
≥ OR >600	12.1	13.6	13.6	13.6	13.6	13.6	13.6	13.6
≥ OR >300	12.1	13.6	13.6	13.6	13.6	13.6	13.6	13.6
≥ OR >150	12.1	13.6	13.6	13.6	13.6	13.6	13.6	13.6
≥ OR > 0	12.1	13.6	13.6	13.6	13.6	13.6	13.6	13.6
TOTAL	8	9	9	9	9	9	9	9

TOTAL NUMBER OF OBS: 66

PCT FREQ NH <5/8: 86.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.2	21.7	15.9	24.6	15.9	1.4	7.2	1.4	4.3	.0	69

PERIOD: (PRIMARY) 1942-1977
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.4	.2	.0	.2	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.2	.0	.2	.0	.0	.0	.0	.8	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.6	
2<5	PCP	.2	.0	.5	*	.0	.0	.0	.0	.0	.6	.8	
	NO PCP	.4	.6	1.8	.3	.2	.2	.0	.6	.0	.0	4.0	
	TOT %	.6	.6	2.3	.3	.2	.2	.0	.6	.0	.0	4.8	
5<10	PCP	.4	.8	.4	.1	.3	.3	.2	.2	.0	.0	2.7	
	NO PCP	.5	2.0	6.1	5.0	2.7	1.7	.8	.9	.0	3.4	23.1	
	TOT %	.9	2.8	6.4	5.1	3.0	2.0	1.0	1.1	.0	3.4	25.8	
10+	PCP	.0	.2	.1	.6	.0	.0	.0	.2	.0	.2	1.3	
	NO PCP	4.2	6.9	14.3	15.5	7.1	4.5	5.2	2.5	.0	6.7	66.8	
	TOT %	4.2	7.2	14.4	16.0	7.1	4.5	5.2	2.7	.0	6.9	68.1	
	TOT OBS												524
	TOT PCT	5.7	10.7	23.7	21.7	10.4	6.8	6.3	4.4	.0	10.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	.3	.4	.0	.0	.0	.0	.0	1.6	2.3	
	4-10	.2	*	1.1	.3	.1	.2	.0	.0	.0		2.0	
	11-21	.0	.0	.0	.0	.1	*	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	1.4	.6	.3	.3	.0	.0	.0	1.6	4.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.4	.0	.2	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.2	.3	.1	.0	.0	.2	.0		.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.2	.3	.1	.0	.0	.2	.0	.0	.9	
2<5	0-3	.4	.2	.3	.0	.0	.2	.0	.5	.0	.0	1.6	
	4-10	.0	.4	1.7	.3	.0	.0	.0	.0	.0		2.3	
	11-21	.2	.0	.1	*	.2	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.6	2.1	.3	.2	.2	.0	.5	.0	.0	4.4	
5<10	0-3	.4	1.1	1.1	.9	.8	.8	.5	.5	.0	3.2	9.2	
	4-10	.2	1.7	3.8	2.9	1.6	.8	.4	.5	.0		11.9	
	11-21	.0	.1	1.3	.8	.3	.3	.1	.0	.0		2.8	
	22+	.3	.0	.0	.2	.0	.0	.0	.3	.0		.7	
	TOT %	.8	2.8	6.2	4.8	2.8	1.8	1.0	1.2	.0	3.2	24.7	
10+	0-3	1.3	2.1	2.9	3.9	2.1	1.6	2.6	1.6	.0	6.4	24.3	
	4-10	1.8	3.5	6.6	8.5	3.6	2.1	2.1	.9	.0		29.3	
	11-21	.8	.8	4.0	3.5	.7	.5	.3	.1	.0		10.7	
	22+	.0	.2	.1	.2	.1	.0	.0	.0	.0		.7	
	TOT %	3.9	6.7	13.7	16.1	6.6	4.2	5.0	2.6	.0	6.4	65.0	
	TOT OBS												563
	TOT PCT	5.5	10.3	23.6	22.4	9.9	6.6	6.0	4.5	.0	11.2	100.0	

DECEMBER

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1857-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	19
06&09	.0	.0	.0	6.7	6.7	.0	6.7	.0	.0	.0	20.0	80.0	15
12&15	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	.0	10.5	89.5	19
18&21	.0	.0	.0	6.7	6.7	6.7	6.7	.0	.0	.0	26.7	73.3	15
TOT	0	0	0	2	3	2	2	0	0	0	9	59	68
PCT	.0	.0	.0	2.9	4.4	2.9	2.9	.0	.0	.0	13.2	86.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	10.0	90.0	20
06&09	10.9	1.1	1.1	7.6	36.4	42.9	275
12&15	.0	.0	.0	.0	19.0	81.0	21
18&21	.0	.0	.7	2.9	16.2	80.1	277
TOT	30	3	5	29	151	375	593
PCT	5.1	.5	.8	4.9	25.5	63.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	.0	.0	100.0	19
06&09	.0	.0	6.7	13.3	80.0	15
12&15	.0	.0	.0	11.8	88.2	17
18&21	.0	.0	6.7	20.0	73.3	15
TOT	0	0	2	7	57	66
PCT	.0	.0	3.0	10.6	86.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.2	.0	.2	.0	2	.4
90/94	.0	.0	.0	.6	.6	1.5	.2	.2	16	3.0
85/89	.0	.0	.0	.6	1.3	7.2	6.4	1.1	86	16.6
80/84	.0	.0	.0	.2	4.0	18.1	27.4	13.0	332	62.6
75/79	.0	.0	.0	.4	.6	3.2	7.0	5.8	90	17.0
70/74	.0	.0	.0	.0	.0	.0	.0	.4	2	.4
TOTAL	0	0	0	9	35	159	218	109	530	100.0
PCT	.0	.0	.0	1.7	6.6	30.0	41.1	20.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.0	*	.1	.0	.0	.0
.0	.2	.1	.6	.1	.4	.4	.2	.0	.9
.9	1.7	4.0	1.7	2.2	1.1	1.8	.8	.0	2.5
3.3	6.5	16.6	16.2	5.9	3.3	2.9	2.7	.0	5.3
1.1	2.0	3.8	3.6	1.7	1.3	.7	.7	.0	2.3
.0	*	.1	.0	.0	.2	.0	.0	.0	.0
5.2	10.4	24.6	22.3	9.9	6.4	5.8	4.3	.0	10.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	86	86	82	78	75	75	82.0	21
06&09	92	91	88	81	77	75	73	81.7	289
12&15	84	83	83	81	77	75	75	80.4	25
18&21	98	92	89	82	78	75	75	82.5	289
TOT	98	92	88	82	77	75	73	82.1	624

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.9	11.8	47.1	29.4	5.9	75	17
06&09	.0	2.4	4.3	26.9	39.5	26.9	83	253
12&15	.0	.0	.0	26.1	69.6	4.3	82	23
18&21	.0	1.1	9.0	29.7	44.0	16.2	81	266
TOT	0	10	37	161	238	113	82	559

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.4	.0	1	.0	.4
11/13	.0	.0	.0	.0	.0	.4	1	.0	.4
9/10	.0	.0	.0	.4	.0	.0	1	.0	.4
7/8	.0	.0	.0	.0	.4	.0	1	.0	.4
6	.0	.0	.4	.4	.8	.0	4	.0	1.7
5	.0	.0	.0	1.3	.0	.0	3	.0	1.3
4	.0	.0	2.5	1.3	1.7	.0	13	.0	5.4
3	.0	.0	.4	2.1	.4	.0	7	.0	2.9
2	.0	.4	2.9	3.3	.0	.0	16	.0	6.7
1	.0	1.7	7.1	3.3	.4	.0	30	.0	12.6
0	.0	4.2	9.2	3.3	.0	.0	40	.0	16.7
-1	.0	3.3	10.9	.8	.0	.0	36	.0	15.1
-2	.4	2.5	7.5	1.3	.0	.0	28	.0	11.7
-3	.0	2.9	5.0	.4	.0	.0	20	.0	8.4
-4	.0	4.2	4.6	.4	.0	.0	22	.0	9.2
-5	.0	1.7	.8	.0	.0	.0	6	.0	2.5
-6	.4	2.1	.0	.0	.0	.0	6	.0	2.5
-7/-8	.0	.8	.4	.0	.0	.0	3	.0	1.3
-9/-10	.0	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	2	58	124	44	10	1	239	0	239
PCT	.8	24.3	51.9	18.4	4.2	.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	1.3	.0	.0	.0	2.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	1.3	.0	.0	.0	2.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	6.6	.0	.0	.0	.0	6.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.2	.4	.4	.0	.0	9.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	3.3	.0	.0	.0	.0	4.9
1-2	1.6	9.8	.0	.0	.0	.0	11.5
3-4	.0	.0	4.9	.0	.0	.0	4.9
5-6	.0	.0	9.0	.0	.0	.0	9.0
7	.0	.0	3.3	.0	.0	.0	3.3
8-9	.0	.0	.0	1.2	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	13.1	17.2	1.2	.0	.0	34.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	4.5	2.0	.0	.0	.0	6.6
3-4	.0	6.6	6.6	.0	.0	.0	13.1
5-6	.0	1.6	.4	.0	.0	.0	2.5
7	.0	.0	3.3	.0	.0	.0	3.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.3	12.3	.4	.0	.0	27.0

PERIOD: (OVER-ALL) 1964-1977 DECEMBER AREA 0012 NEW HEBRIDES ISLANDS

TABLE 18 (CONT) 16.5S 167.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.7	4.1	.0	.0	.0	7.8
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	1.6	.0	1.2	.0	.0	2.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	1.6	.0	.0	.0	.0	1.6
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.0	5.7	1.2	.0	.0	13.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	.0	.4	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	.4	.0	.0	.0	2.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	.0	.0	.0	.0	.0	1.6
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	.0	.0	.0	.0	.0	1.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.4	.0	.0	.4	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.4	.0	.0	.0	.4	91.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.5	8.2	.0	.0	.0	.0	19.7	
1-2	1.6	20.8	8.2	.0	.0	.0	30.1	
3-4	.0	6.6	13.1	.0	.0	.0	19.7	
5-6	.0	3.3	9.8	1.6	.0	.0	14.8	
7	.0	.0	6.6	.0	.0	.0	6.6	
8-9	.0	.0	.0	1.6	.0	.0	1.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	1.6	.0	.0	.0	.0	1.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.1	45.9	37.7	3.3	.0	.0	100.0	61

PERIOD: (OVER-ALL) 1959-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	15.4	4.6	6.2	7.7	.0	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	4
6-7	.0	1.5	9.2	10.8	6.2	3.1	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
8-9	.0	.0	3.1	.0	4.6	1.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
10-11	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
12-13	.0	.0	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	7.7	1.5	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	6	12	14	14	12	3	1	2	2	0	0	0	0	0	0	0	0	0	0	65	5
PCT	9.2	18.5	21.5	20.0	18.5	4.6	1.5	3.1	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1931-1978
(OVER-ALL) 1856-1978

AREA 0012 NEW HEBRIDES ISLANDS
16.0S 167.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNDW	NO SIG WEA
N	3.8	2.1	1.8	.0	.0	.0	.0	7.7	.0	1.5	.2	.0	1.4	.0	.0	89.2
NE	5.6	2.0	1.4	.0	.0	.0	.0	10.1	.3	1.1	.2	.0	1.5	.0	.0	87.2
E	4.7	2.0	1.8	.0	.0	.0	*	8.5	.9	.8	.3	.0	.8	.0	.0	88.8
SE	4.2	2.2	1.1	.0	.0	.0	*	7.9	.2	.8	.3	.0	1.3	.0	.0	89.0
S	4.9	2.4	1.6	.0	.0	.0	.0	8.9	.6	1.0	.2	.0	1.4	.0	.0	87.8
SW	4.8	1.4	1.0	.0	.0	.0	.0	7.3	.3	1.0	.0	.0	1.3	.0	.0	90.1
W	10.3	2.4	1.2	.0	.0	.0	.0	13.9	1.3	1.4	.0	.0	.5	.0	.0	83.0
NW	5.0	1.9	2.0	.0	.0	.0	.0	8.9	.4	.5	.0	.0	1.9	.0	.0	88.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3	.8	1.2	.0	.0	.0	.0	7.4	.1	1.4	.3	.0	.6	.0	.0	90.9
TOT PCT	5.2	2.1	1.6	.0	.0	.0	*	8.9	.7	.9	.3	.0	1.1	.0	.0	88.3
TOT OBS:	6966															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNDW	NO SIG WEA
00603	3.7	2.3	.9	.0	.0	.0	.0	6.9	5.0	.5	.5	.0	1.9	.0	.0	85.5
06609	5.5	2.4	1.6	.0	.0	.0	.0	10.6	.3	1.3	.3	.0	.8	.0	.0	87.0
12615	4.9	1.8	1.9	.0	.0	.0	.5	8.6	2.4	6.4	.4	.0	1.0	.0	.0	81.8
18621	4.2	2.0	1.8	.0	.0	.0	*	7.9	.5	.1	.2	.0	1.2	.0	.0	90.1
TOT PCT	5.3	2.1	1.6	.0	.0	.0	*	9.1	.7	.9	.3	.0	1.1	.0	.0	88.1
TOT OBS:	7121															

TABLE 3

PERCENTAGE FREQUENCY OR WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	2.2	.4	.1	*	*		4.8	5.9	3.8	4.9	2.4	5.6	2.8	6.9	1.8	4.7
NE	4.1	4.5	.9	.1	*	.0		9.6	5.5	5.1	.0	5.7	10.4	4.8	4.2	5.9	10.6
E	7.5	15.3	6.9	.6	*	.0		30.3	7.9	31.4	11.8	33.0	29.4	32.9	29.2	30.3	30.5
SE	4.7	13.3	7.8	1.0	.1	*		27.0	9.1	38.8	21.9	35.3	29.0	41.2	27.8	43.3	23.8
S	1.8	3.6	1.6	.2	*	*		7.2	8.1	10.2	16.3	13.1	6.5	7.1	.0	6.6	7.0
SW	1.7	1.9	.3	*	.0	.0		3.9	5.5	2.5	.0	2.3	4.2	2.0	2.1	5.2	4.1
W	1.9	1.4	.4	*	*	.0		3.7	5.2	3.3	.0	2.1	3.2	3.1	6.3	3.0	4.5
NW	2.2	1.5	.3	*	*	*		4.1	4.6	1.8	9.0	2.3	4.3	3.1	4.2	2.4	4.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.5							9.5	.0	3.0	2.8	3.9	11.4	3.1	2.8	1.7	10.4
TOT OBS							7493		6.9	361	18	277	3064	284	15	253	3221
TOT PCT	35.3	43.7	18.6	2.1	.2	.1		100.0		100.0	66.7	100.0	100.0	100.0	83.3	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.5	1.0	.2	.1	*		4.8	5.9	4.1	5.3	3.1	4.5
NE	7.2	2.1	.4	*	.0		9.6	5.5	4.8	10.0	4.6	10.3
E	15.2	12.2	2.8	.1	*		30.3	7.9	30.7	29.7	33.2	30.5
SE	11.4	11.8	3.5	.2	.1		27.0	9.1	38.7	25.9	40.5	25.3
S	3.7	2.8	.6	.1	*		7.2	8.1	10.6	7.0	6.8	7.0
SW	2.9	.9	.1	*	.0		3.9	5.5	2.4	4.0	2.0	4.1
W	2.9	.7	.1	*	.0		3.7	5.2	3.2	3.1	3.2	4.4
NW	3.2	.7	.1	.1	*		4.1	4.6	2.6	4.2	3.3	4.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.5						9.5	.0	3.1	10.7	3.3	9.7
TOT OBS						7493		6.9	379	3341	299	3474
TOT PCT	59.5	32.2	7.7	.5	.1		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1931-1970
(OVER-ALL) 1856-1970

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.1	2.7	36.6	48.6	7.9	.8	.3	12.9	100.0	379
06&09	10.7	27.2	44.4	15.8	1.7	.2	*	6.4	100.0	3341
12&15	3.3	4.1	42.2	46.2	3.3	.5	.4	11.8	100.0	299
18&21	9.7	29.0	43.9	15.6	1.6	.1	.1	6.3	100.0	3474
TOT								6.9		7493
PCT	9.5	25.8	43.7	18.6	2.1	.2	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.7	1.1	.9		3.3
NE	.7	.9	2.0	1.2		5.4
E	6.4	7.5	10.9	6.2		4.7
SE	7.7	9.9	15.5	7.2		4.8
S	3.7	1.5	2.3	1.6		4.3
SW	.7	.7	.4	.7		4.6
W	.3	.6	.6	1.5		5.3
NW	.2	.7	1.1	.9		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.5	.8	.6	.2		3.4
TOT OBS					987	4.8
TOT PCT	22.1	23.2	34.5	20.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.7	.4	.1	.0	.0	.1	.0	1.6	
NE	.1	.0	.0	.1	.5	.6	.1	.1	.0	.1	3.1	
E	.2	.0	.9	3.1	3.9	2.0	.5	.1	.2	.0	20.7	
SE	.2	.2	.8	3.5	5.3	2.4	.9	.1	.1	.0	26.7	
S	.0	.0	.1	1.4	.8	.1	.5	.1	.0	.0	6.0	
SW	.0	.0	.2	.8	.1	.1	.1	*	.0	.0	1.6	
W	.0	.0	.6	.5	.2	.0	.2	.1	.0	.0	1.4	
NW	.0	.1	.1	.4	.3	.1	.1	*	*	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0	2.7	
TOT OBS												987
TOT PCT	.5	.4	2.6	10.2	11.5	5.4	2.6	.5	.4	.1	65.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.6	.9	.9	.9	.9	.9	.9	.9
* OR >3500	2.5	3.5	3.6	3.6	3.6	3.6	3.6	3.6
* OR >2000	6.0	9.0	9.1	9.1	9.1	9.1	9.1	9.1
* OR >1000	13.6	19.2	20.3	20.5	20.5	20.5	20.5	20.5
* OR >600	18.6	28.6	30.2	30.8	30.8	30.8	30.9	30.9
* OR >300	19.5	30.2	32.5	33.4	33.4	33.4	33.5	33.5
* OR >150	19.6	30.5	32.9	33.8	33.8	33.8	33.9	33.9
* OR > 0	19.8	30.9	33.3	34.3	34.3	34.3	34.4	34.4

TOTAL NUMBER OF OBS: 1011 PCT FREQ NH <5/8: 65.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.6	15.8	18.8	16.2	11.2	7.5	7.9	6.9	11.8	.3	1117

PERIOD: (PRIMARY) 1931-1978
(OVER-ALL) 1856-1978

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.1	.1	*	*	*	*	.0	.0	.4	
	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	*	.0	.1	.1	*	*	*	*	.0	.0	.4	
1/2<1	PCP	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	*	.1	.1	*	.0	.0	.0	.0	.0	.2	
	TOT %	*	.1	.2	.1	*	.0	.0	.0	.0	.0	.4	
1<2	PCP	.1	*	.1	.1	.1	*	.1	*	.0	.1	.6	
	NO PCP	.0	.0	*	.1	*	*	*	.0	.0	*	.1	
	TOT %	.1	*	.2	.2	.1	*	.1	*	.0	.1	.8	
2<5	PCP	.1	.2	.6	.3	.1	.1	*	*	.0	.1	1.4	
	NO PCP	.4	.6	2.1	1.4	.3	.2	.2	.4	.0	.2	5.8	
	TOT %	.5	.7	2.6	1.7	.4	.3	.2	.4	.0	.3	7.2	
5<10	PCP	.2	.5	1.0	1.0	.3	.1	.2	.1	.0	.2	3.6	
	NO PCP	.7	2.1	7.2	7.2	1.7	1.0	.7	.8	.0	2.0	23.2	
	TOT %	.9	2.5	8.2	8.2	2.0	1.1	.9	.9	.0	2.1	26.8	
10+	PCP	.1	.3	.6	.6	.1	.1	.2	.2	.0	.5	2.7	
	NO PCP	3.2	6.1	18.3	15.4	4.3	2.5	2.5	2.6	.0	6.9	61.7	
	TOT %	3.3	6.4	18.9	19.0	4.5	2.6	2.6	2.8	.0	7.3	64.4	
	TOT OBS												6963
	TOT PCT	4.8	9.8	30.2	26.4	7.1	4.0	3.8	4.2	.0	9.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.1	.1	*	*	*	.0	.0	.2	.5	
	4-10	*	.1	.0	.4	.1	.1	*	*	.0		1.3	
	11-21	*	*	.1	.1	*	*	.0	.0	.0		.3	
	22+	.0	.0	*	*	*	.0	.0	.0	.0		*	
	TOT %	.1	.1	.8	.6	.2	.1	.1	*	.0	.2	2.1	
1/2<1	0-3	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
	4-10	*	.1	.2	.1	*	*	*	.0	.0		.4	
	11-21	*	*	*	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	*	.1	.2	.2	*	*	*	.0	.0	.0	.7	
1<2	0-3	.1	*	.1	.1	*	*	*	.1	.0	.1	.5	
	4-10	.1	.1	.2	.2	.1	*	*	.1	.0		.8	
	11-21	*	*	.1	.2	*	.0	*	*	.0		.4	
	22+	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	TOT %	.1	.1	.4	.6	.2	*	.1	.1	.0	.1	1.8	
2<5	0-3	.2	.2	.4	.2	.1	.2	.1	.2	.0	.3	1.9	
	4-10	.2	.4	1.5	.9	.2	.1	.1	.1	.0		3.5	
	11-21	.1	.1	.6	.4	.1	*	*	*	.0		1.4	
	22+	*	*	*	.1	*	.0	.0	*	.0		.3	
	TOT %	.5	.7	2.5	1.7	.4	.3	.2	.4	.0	.3	7.0	
5<10	0-3	.3	1.0	2.2	1.4	.6	.4	.3	.4	.0	2.0	8.8	
	4-10	.4	1.1	3.9	3.9	.9	.5	.3	.4	.0		11.5	
	11-21	*	.3	1.7	2.2	.4	.1	.1	.1	.0		4.8	
	22+	.1	*	.2	.3	*	*	*	.1	.0		.8	
	TOT %	.8	2.4	7.9	7.9	1.9	1.0	.8	.9	.0	2.0	25.8	
10+	0-3	1.5	2.8	4.7	2.9	1.1	1.1	1.4	1.5	.0	7.1	24.1	
	4-10	1.4	2.8	8.9	7.6	2.2	1.2	.9	1.0	.0		25.9	
	11-21	.3	.5	4.3	4.8	1.0	.2	.2	.2	.0		11.5	
	22+	*	.1	.3	.5	.1	*	.0	*	.0		1.1	
	TOT %	3.2	6.2	18.3	15.8	4.3	2.5	2.6	2.7	.0	7.1	62.7	
	TOT OBS												7259
	TOT PCT	4.8	9.7	30.2	26.7	7.1	3.9	3.8	4.2	.0	9.7	100.0	

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PERIOD: (PRIMARY) 1931-1970
(OVER-ALL) 1856-1970

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.7	2.6	9.2	8.6	7.8	2.6	.4	.3	.0	32.4	67.6	337
06&09	1.3	.4	3.0	11.6	11.3	4.4	4.1	.9	.3	.4	37.7	62.3	263
12&15	.0	.0	2.1	7.9	13.9	3.2	1.3	.0	.0	.0	28.4	71.6	236
18&21	1.5	.0	1.9	11.1	9.3	4.5	2.0	.4	.8	.0	31.6	68.4	244
TOT													1080
PCT	.6	.4	2.4	9.8	10.5	5.3	2.6	.5	.3	.1	32.4	67.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.4	.0	.5	3.3	16.5	79.3	354
06&09	5.2	1.2	3.2	11.5	34.8	44.1	3350
12&15	.4	.2	1.7	5.1	17.8	74.5	283
18&21	.1	.4	.5	3.3	19.5	76.2	3404
TOT							7451
PCT	2.5	.7	1.7	7.0	26.2	61.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <5OVD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.6	14.6	19.8	65.6	319
06&09	1.3	5.0	18.7	20.7	60.6	255
12&15	.0	2.2	14.4	17.6	68.0	222
18&21	1.0	3.2	18.0	17.9	64.1	215
TOT						1011
PCT	.5	3.6	16.2	19.2	64.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREW
100/104	.0	.0	.0	*	.0	.0	.0	.0		*
95/99	.0	.0	*	*	*	*	*	.0		.1
90/94	.0	.0	.0	.1	.4	.4	.2	.1		1.2
85/89	.0	.0	*	.2	.7	4.4	3.7	1.5		10.5
80/84	.0	.0	*	.3	2.8	13.7	19.2	11.6		47.6
75/79	.0	.0	.0	.3	1.7	8.4	11.2	13.4		35.0
70/74	.0	.0	.0	.1	.7	1.1	1.4	2.2		5.5
65/69	.0	.0	.0	.0	*	*	*	*		.1
60/64	.0	.0	.0	.0	.0	.0	.0	*		*
TOTAL									6469	100.0
PCT	.0	.0	.1	1.0	6.3	28.0	35.7	28.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	.0	.0	.0	.0
.0	*	*	*	.0	*	*	.0	.0	*
.1	.1	.2	.2	.1	.1	.1	.1	.0	.2
.6	1.3	2.2	1.8	.7	.3	.5	.9	.0	2.2
2.6	5.2	13.8	12.2	2.9	2.1	2.1	2.1	.0	4.6
1.4	2.6	12.8	10.0	2.6	1.2	1.1	1.2	.0	2.1
.1	.4	1.9	1.8	.7	.3	.1	.1	.0	.2
.0	*	.1	*	.1	*	.0	.0	.0	.0
.0	.0	.0	.0	*	.0	.0	.0	.0	.0
4.8	9.6	30.9	26.0	7.1	4.1	3.9	4.2	.0	9.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	94	88	86	81	76	73	65	80.8	483
06&09	92	88	85	80	75	73	63	80.0	3304
12&15	85	82	82	79	74	71	61	78.6	307
18&21	100	89	86	80	75	73	64	80.2	3543
TOT	100	89	85	80	75	73	61	80.1	7537

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.5	15.9	42.0	28.8	9.8	77	294
06&09	.0	.7	5.2	26.9	35.7	31.6	84	2902
12&15	.0	1.1	10.7	27.4	47.5	13.3	81	249
18&21	.0	1.4	6.2	27.4	35.6	29.4	83	3171
TOT	0	77	423	1837	2394	1885	83	6616

ANNUAL

PERIOD: (PRIMARY) 1951-1978
(OVER-ALL) 1866-1978

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	*	.0	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.2	.0	9	.0	.4
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.1	9	.0	.2
9/10	.0	.0	.0	.0	.0	*	.1	.2	.2	17	.0	.5
7/8	.0	.0	.0	.0	*	.1	.4	.5	*	38	.0	1.1
6	.0	.0	.0	.0	*	.2	.3	.2	*	24	.0	.7
5	.0	.0	.0	*	.2	.4	.8	.2	.0	57	.0	1.5
4	.0	.0	.0	*	.2	.8	.8	.3	.0	72	.0	2.1
3	.0	.0	*	.1	.3	1.1	1.1	*	.0	92	*	2.5
2	.0	.0	.0	.1	1.2	2.7	1.6	*	.0	203	*	5.5
1	.0	.0	.0	.3	2.5	4.2	1.7	.1	.0	318	.2	8.6
0	.0	.0	.1	.8	6.8	6.6	.9	.0	.0	558	.1	15.2
-1	.0	.0	*	1.6	5.8	6.3	.9	.0	.0	527	.1	14.6
-2	.0	*	.1	2.6	6.7	5.8	.3	.0	.0	565	.1	15.5
-3	.0	*	.2	1.8	5.9	3.1	.2	.0	.0	403	*	11.0
-4	.0	*	.4	1.8	4.8	1.9	*	.0	.0	319	*	8.9
-5	*	.0	.4	1.2	2.9	.8	.0	.0	.0	188	.0	5.2
-6	.0	.0	.4	1.0	1.4	.2	.0	.0	.0	110	.0	3.0
-7/-8	.0	*	.2	.8	.9	.2	.0	.0	.0	81	.0	2.2
-9/-10	*	.0	.1	.3	.2	.1	.0	.0	.0	29	.0	.7
-11/-13	*	*	.0	.1	.0	.0	.0	.0	.0	5	.0	.1
TOTAL										3626		
PCT	.1	.2	2.0	12.5	39.9	34.2	9.0	1.8	.3	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.1	.5	.7	.0	.0	.0	1.3
3-4	.1	.1	.3	.1	.0	.0	.5
5-6	.0	.1	.0	.1	.0	.0	.2
7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.2	1.2	.5	.1	.0	3.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	*	2.4	.4	.0	.0	.0	2.9
3-4	.0	.6	.5	.1	.0	.0	1.2
5-6	.0	.4	.8	.2	.0	.0	1.3
7	.0	.1	.1	.1	.0	.0	.3
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	3.7	1.7	.4	*	.0	6.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.2	.0	.0	.0	1.1
1-2	.6	7.0	2.5	.0	.0	.0	10.1
3-4	.0	3.9	6.7	.4	.0	.0	11.0
5-6	.0	.3	4.5	.5	.1	.0	5.4
7	.0	.1	1.7	.3	.0	.0	2.0
8-9	.0	.0	.9	.3	.0	.0	1.2
10-11	.0	.0	.2	.3	.0	.0	.4
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	11.9	16.9	1.7	.1	.0	31.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.2	.0	.0	.0	1.3
1-2	.1	7.7	2.6	.0	.0	.0	10.4
3-4	.0	4.9	9.7	1.0	.0	.0	15.5
5-6	.0	.7	5.3	.9	.1	.0	6.9
7	.0	.1	1.8	.8	.1	.1	2.9
8-9	.0	.0	1.1	.7	.0	.1	1.9
10-11	.0	.0	.6	.3	.1	.0	.9
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	14.3	21.3	3.7	.3	.2	40.1

PERIOD: (OVER-ALL) 1965-1978 ANNUAL AREA 0012 NEW HEBRIDES ISLANDS 16.6S 167.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.2	1.7	.7	.0	.0	.0	2.5
3-4	.0	.7	2.4	.2	.0	.0	3.3
5-6	.0	.4	.6	.4	.0	.0	1.4
7	.0	.0	.7	.1	.1	.0	.9
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.1	.0	.0	.1
12	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.2	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.1	.0	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.6	4.8	.8	.2	.0	9.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.3	.0	.0	.0	.0	.3
1-2	*	.7	*	.0	.0	.0	.8
3-4	.0	.4	.6	.0	.0	.0	.9
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.6	1.4	.2	.1	.0	3.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.4
1-2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.4	.4	.1	.0	.0	.9
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.1	.1	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.0	1.0	.2	.1	.0	2.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	
1-2	.2	.4	.2	.0	.0	.0	.7	
3-4	.0	.0	.5	*	.0	.0	.5	
5-6	.0	.0	.0	*	.0	.0	*	
7	.0	.0	*	*	.0	.0	.1	
8-9	.0	.0	.0	.1	*	.0	.2	
10-11	.0	.0	.0	*	.1	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	*	.0	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.8	.8	.3	.1	.0	2.1	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	3.7	.4	.0	.0	.0	8.5	
1-2	1.5	20.9	7.2	.0	.0	.0	29.6	
3-4	.2	10.7	20.5	1.9	.0	.0	33.4	
5-6	.0	1.9	11.2	2.1	.2	.0	15.5	
7	.0	.3	4.3	1.3	.2	.1	6.3	
8-9	.0	.0	2.2	1.3	.1	.1	3.7	
10-11	.0	.0	.9	.8	.2	.0	1.9	
12	.0	.1	.3	.0	.0	.0	.5	
13-16	.0	.1	.2	.0	.0	.0	.3	
17-19	.0	.0	.2	.0	.1	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	37.8	47.5	7.5	.9	.2	100.0	912

PERIOD: (OVER-ALL) 1958-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	10.1	13.1	7.2	5.3	1.3	.5	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	398	4
6-7	.0	1.1	6.8	8.7	6.8	2.7	2.0	.7	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	302	6
8-9	.0	1.0	1.6	2.7	3.8	2.6	1.4	.7	1.2	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	161	7
10-11	.0	.6	.8	1.3	.5	.9	.9	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	7
12-13	.0	.0	.9	1.0	.2	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
>13	.0	.0	.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	9	8
INDET	2.4	.9	.8	.4	.6	.7	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	60	4
TOTAL PCT	3.2	13.8	24.0	22.0	17.4	8.4	5.2	2.1	2.5	1.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	1018 100.0	5

PERIOD: (PRIMARY) 1931-1970
(OVER-ALL) 1856-1970

AREA 0012 NEW HEBRIDES ISLANDS
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TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
89/90	.4	.4	1.0	.3	.6	.0	.0	.0	.0	.2	.3	1.8	16	.4
87/88	1.9	4.8	4.4	1.9	.9	.0	.0	.3	.3	1.4	1.1	4.0	67	1.7
85/86	45.0	23.5	24.2	8.7	6.2	1.3	.7	3.5	2.3	2.7	6.0	18.5	383	9.6
83/84	42.4	45.2	49.1	43.3	21.1	6.4	1.7	2.4	4.3	8.0	14.4	29.8	849	21.3
81/82	42.3	20.6	15.8	33.0	33.1	29.8	18.7	25.1	19.5	25.4	25.9	28.0	981	24.6
79/80	65.1	2.9	3.4	8.4	26.9	27.8	39.8	31.8	29.4	32.9	34.1	12.0	881	22.1
77/78	.8	1.1	1.3	3.1	4.6	21.7	25.4	25.6	25.4	20.0	12.5	4.0	527	13.2
75/76	.4	.7	.5	.9	.9	10.3	9.0	7.3	14.2	5.8	4.4	.8	194	4.9
73/74	.8	.7	.0	.3	.6	1.7	2.7	2.7	3.3	1.7	.5	1.1	55	1.4
71/72	.0	.0	.0	.0	.0	1.0	1.0	.5	.8	1.0	.8	.0	18	.5
69/70	.0	.0	.0	.0	.0	.0	1.0	.8	.5	.9	.0	.0	12	.3
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	204	272	385	321	323	299	299	371	394	414	367	375	3984	100.0
MEAN	83.3	83.5	83.7	82.4	81.2	79.4	78.7	79.3	78.7	79.8	80.6	82.7	81.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007	1001	1007	1008	1007	1010	1006	1009	1006	560
FEB	1008	1006	1007	1009	1008	1010	1007	1010	1009	504
MAR	1009		1007	1009	1010	1007	1007	1009	1009	672
APR	1012	1006	1011	1010	1011	1012	1009	1011	1011	610
MAY	1013	1012	1011	1012	1012	1013	1011	1012	1012	636
JUN	1015	1017	1012	1013	1014	1017	1012	1013	1013	489
JUL	1014		1012	1013	1014	1019	1012	1014	1014	407
AUG	1015	1013	1012	1013	1014	1012	1013	1014	1014	608
SEP	1014		1012	1014	1015		1014	1014	1014	698
OCT	1014		1012	1013	1013		1011	1013	1013	676
NOV	1011	1011	1010	1011	1011	1006	1009	1012	1011	593
DEC	1010	1011	1008	1009	1010	1008	1007	1010	1009	572
ANN	1012	1010	1010	1011	1012	1011	1010	1012	1011	7027
OBS	362	16	282	2825	294	15	261	2972		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	993	998	1002	1006	1009	1011	1013	1016	1019
FEB	995	998	1002	1007	1009	1011	1013	1018	1020
MAR	997	999	1002	1007	1009	1011	1013	1018	1022
APR	998	1001	1004	1009	1011	1013	1016	1017	1021
MAY	999	1002	1006	1011	1013	1014	1017	1019	1025
JUN	1000	1004	1006	1011	1013	1016	1019	1022	1024
JUL	1003	1005	1008	1011	1014	1016	1018	1019	1020
AUG	1003	1006	1008	1012	1014	1016	1017	1020	1024
SEP	1001	1004	1009	1012	1014	1016	1019	1021	1024
OCT	999	1002	1008	1011	1013	1015	1017	1019	1023
NOV	998	1002	1006	1010	1012	1013	1016	1018	1021
DEC	994	1001	1003	1008	1009	1011	1013	1017	1018

JANUARY

PERIOD: (PRIMARY) 1937-1978
(OVER-ALL) 1874-1978

AREA 0013 FIJI ISLANDS
17.5S 51.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.5	6.6	.0	.0	.0	.0	.0	8.6	1.9	.0	.0	.0	2.5		.0	87.0
NE	5.7	3.0	.9	.0	.0	.0	.0	14.6	4.2	.0	1.9	.0	.0		.0	79.2
E	3.0	7.8	.5	.0	.0	.0	.0	11.3	1.8	.0	1.5	.0	.0		.0	85.4
SE	3.4	5.1	.0	.0	.0	.0	.0	8.5	8.7	.0	.6	.0	1.1		.0	81.1
S	8.3	5.0	2.1	.0	.0	.0	.0	16.0	9.7	2.8	.0	.0	.0		.0	74.3
SW	9.7	2.2	1.1	.0	.0	.0	.0	12.9	1.1	.0	.0	.0	.0		.0	86.0
W	4.7	3.1	3.1	.0	.0	.0	.0	11.0	2.4	.0	.0	.0	.0		.0	86.6
NW	5.3	5.9	.0	.0	.0	.0	.0	11.2	.0	2.4	.0	.0	.0		.0	88.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.3	5.3	.0	.0	.0	.0	.0	10.5	.0	5.3	.0	.0	5.3		.0	78.9
TOT PCT	4.6	6.0	.7	.0	.0	.0	.0	11.3	3.9	.7	.7	.0	.7		.0	83.2
TOT OBS:	434															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	5.0	5.5	.5	.0	.0	.0	.0	9.0	2.5	1.0	.5	.0	.5		.0	87.4
06609	7.9	3.2	1.6	.0	.0	.0	.0	12.7	1.6	.0	.0	.0	3.2		.0	82.5
12615	1.6	13.9	.8	.0	.0	.0	.0	16.4	4.1	.8	2.5	.0	.0		.0	76.2
18621	6.2	3.1	.0	.0	.0	.0	.0	9.2	9.2	.0	.0	.0	.0		.0	81.5
TOT PCT	4.7	6.6	.7	.0	.0	.0	.0	11.6	3.8	.7	.9	.0	.7		.0	82.9
TOT OBS:	449															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	4.6	3.0	.4	.0	.2		9.0	12.2	10.6	.0	2.5	25.0	7.0	40.0	8.1	33.3
NE	1.5	5.2	3.6	1.2	.0	.0		11.4	10.5	10.6	20.8	10.2	.0	12.5	.0	13.1	16.7
E	.9	12.1	11.0	.8	.0	.0		24.8	10.7	19.2	45.8	24.6	12.5	32.7	20.0	26.9	8.3
SE	1.1	8.8	9.7	1.0	.2	.0		20.8	12.3	19.2	16.7	33.2	.0	18.2	20.0	23.1	25.0
S	.7	3.3	3.1	.4	.4	.0		7.8	13.0	9.8	16.7	8.6	.0	7.7	.0	2.3	.0
SW	.6	3.2	1.1	.2	.2	.0		5.3	9.8	6.8	.0	2.5	.0	4.6	.0	6.5	.0
W	.4	3.8	2.2	.4	.0	.0		6.9	10.4	10.5	.0	2.9	.0	3.6	.0	8.5	.0
NW	1.0	6.1	1.9	.9	.0	.0		10.0	9.6	12.6	.0	7.4	12.5	9.6	.0	5.4	16.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0	.5	.0	8.2	50.0	4.1	20.0	6.2	.0
TOT OBS	56	242	183	27	4	1	513		10.7	216	6	61	8	146	5	65	6
TOT PCT	10.9	47.2	35.7	5.3	.8	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.3	4.9	1.1	.4	.2		9.0	12.2	10.4	5.1	8.1	10.2
NE	3.8	5.4	1.9	.2	.0		11.4	10.5	10.9	9.1	12.1	13.4
E	5.8	16.2	4.7	.0	.0		24.8	10.7	19.9	23.2	32.3	25.4
SE	3.3	12.7	4.4	.4	.0		20.8	12.3	19.1	29.3	18.2	23.2
S	1.8	4.0	1.7	.0	.4		7.8	13.0	10.0	7.6	7.5	2.1
SW	2.4	2.5	.2	.0	.2		5.3	9.6	6.6	2.2	4.5	6.0
W	2.5	3.2	.9	.2	.0		6.9	10.4	10.2	2.5	3.5	7.7
NW	3.7	4.8	1.0	.5	.0		10.0	9.6	12.3	8.0	9.3	6.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	.5	13.0	4.6	5.6
TOT OBS	153	275	72	9	4	513		10.7	222	69	151	71
TOT PCT	29.8	53.6	14.0	1.8	.8		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1937-1978
(OVER-ALL) 1874-1976

TABLE 4

AREA 0013 FIJI ISLANDS
17.5S 51.5E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.5	7.2	53.2	33.8	4.1	1.4	.0	10.6	100.0	222
06&09	13.0	5.8	40.6	37.7	2.9	.0	.0	10.0	100.0	69
12&15	4.6	7.3	45.0	35.1	6.6	.7	.7	11.1	100.0	151
18&21	5.6	5.6	39.4	40.8	8.5	.0	.0	11.2	100.0	71
TOT	21	35	242	183	27	4	1	10.7		513
PCT	4.1	6.8	47.2	35.7	5.3	.8	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	1.1	2.1	2.0		5.0
NE	.5	2.1	5.1	5.1		6.2
E	3.6	9.5	10.0	4.6		4.9
SE	3.4	7.1	8.7	5.6		5.1
S	.9	2.4	1.6	2.3		5.5
SW	.4	.0	2.2	1.1		0.3
W	.4	.4	2.6	1.6		5.8
NW	.4	1.4	1.6	1.8		5.6
VAR	.0	.0	.0	.0		.0
CALM	2.6	1.3	1.7	1.3		4.2
TOT OBS	32	58	82	58	230	5.3
TOT PCT	13.9	25.2	35.7	25.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	.7	.0	.0	.0	.4	.0	5.2	
NE	.0	.0	.0	2.6	3.6	1.4	.0	.0	.0	.0	5.2	
E	.0	.0	.4	1.3	3.6	2.1	.4	.0	.0	.0	19.8	
SE	.0	.0	.4	2.2	5.2	.4	.1	.0	.0	.0	16.2	
S	.0	.0	.8	.8	.3	.0	.3	.0	.0	.0	5.0	
SW	.0	.0	.1	.7	.5	.4	.4	.0	.0	.0	1.5	
W	.0	.0	.0	.7	1.5	.0	.4	.0	.0	.0	2.5	
NW	.0	.0	.0	1.0	.2	.0	.4	.0	.0	.0	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.9	.4	.0	.4	.0	.0	.0	5.2	
TOT OBS	0	0	4	24	37	10	6	0	1	0	148	230
TOT PCT	.0	.0	1.7	10.4	16.1	4.3	2.6	.0	.4	.0	64.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5&0YD	= OR >0
= OR >6500	.0	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.0	.4	.4	.4	.4	.4	.4	.4
= OR >3500	2.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR >2000	5.5	6.8	7.2	7.2	7.2	7.2	7.2	7.2
= OR >1000	18.6	21.5	22.8	22.8	22.8	22.8	22.8	22.8
= OR >600	26.2	31.6	34.2	34.6	34.6	34.6	34.6	34.6
= OR >300	27.0	33.3	35.9	36.3	36.3	36.3	36.7	36.7
= OR >150	27.0	33.3	35.9	36.3	36.3	36.3	36.7	36.7
= OR > 0	27.0	33.3	35.9	36.3	36.3	36.3	36.7	36.7
TOTAL	64	79	85	86	86	86	87	87

TOTAL NUMBER OF OBS: 237 PCT FREQ NH <5/8: 63.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.6	9.9	20.2	19.4	12.3	9.1	5.9	5.5	16.2 .0	253

JANUARY

PERIOD: (PRIMARY) 1937-1978
(OVER-ALL) 1874-1978

TABLE 8

AREA 0013 FIJI ISLANDS
17.5S 51.5E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.9	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.1	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5	
2<5	PCP	.0	.3	.9	.0	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	.0	.5	.0	.2	.0	.0	.1	.1	.0	.0	.9	
	TOT %	.0	.7	.9	.2	.0	.0	.1	.1	.0	.0	2.1	
5<10	PCP	.2	.9	.8	1.2	.5	.3	.2	.7	.0	.2	5.1	
	NO PCP	1.3	1.4	2.1	1.7	1.3	.3	.5	.5	.0	.2	9.2	
	TOT %	1.5	2.3	2.9	2.0	1.8	.7	.6	1.2	.0	.5	14.3	
10+	PCP	.5	.6	.9	.5	.2	.1	.6	.0	.0	.2	3.7	
	NO PCP	7.3	8.6	18.2	16.8	5.6	4.3	5.9	8.1	.0	3.7	78.6	
	TOT %	7.7	9.2	19.1	17.4	5.8	4.4	6.6	8.1	.0	3.9	82.3	
	TOT OBS												434
	TOT PCT	9.3	12.2	22.9	20.4	8.3	5.4	7.3	9.8	.0	4.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.7	.2	.0	.0	.0		.9	
	TOT %	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.1	.0	.0	.0	.0	.0	.0	.3	.0		.5	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5	
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.2	.0	.0	.0	.0	.0		.5	
	11-21	.0	.3	.4	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	.2	.2	.0	.0	.0	.1	.1	.0		.7	
	TOT %	.0	.7	.9	.2	.0	.0	.1	.1	.0	.0	2.1	
5<10	0-3	.2	.3	.1	.1	.6	.0	.0	.2	.0	.5	2.1	
	4-10	.7	.9	1.4	.9	.3	.6	.2	.5	.0		5.5	
	11-21	.3	.8	1.4	1.6	.9	.3	.4	.5	.0		6.0	
	22+	.2	.2	.0	.5	.0	.1	.0	.0	.0		.9	
	TOT %	1.5	2.3	2.9	3.0	1.8	.7	.6	1.2	.0	.5	14.5	
10+	0-3	.6	.9	.7	1.1	.2	.5	.3	1.0	.0	3.9	9.4	
	4-10	3.8	4.7	9.8	7.1	2.8	2.9	4.1	5.8	.0		40.9	
	11-21	3.0	2.6	8.2	8.2	2.6	.9	2.0	1.1	.0		28.5	
	22+	.2	.9	.5	.9	.2	.2	.0	.2	.0		3.2	
	TOT %	7.7	9.1	19.1	17.4	5.8	4.4	6.6	8.1	.0	3.9	82.1	
	TOT OBS												435
	TOT PCT	9.3	12.2	22.8	20.6	8.3	5.3	7.3	9.8	.0	4.4	100.0	

JANUARY

PERIOD: (PRIMARY) 1937-1978
(OVER-ALL) 1874-1978

AREA 0013 FIJI ISLANDS
17.3S 51.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.6	10.7	14.3	3.6	.0	.0	.0	.0	32.1	67.9	56
06&09	.0	.0	3.3	10.0	6.7	6.7	8.3	.0	.0	.0	35.0	65.0	60
12&15	.0	.0	.0	18.3	16.9	1.4	1.4	.0	.0	.0	38.0	62.0	71
18&21	.0	.0	1.7	5.0	21.7	5.0	.0	.0	1.7	.0	35.0	65.0	60
TOT	0	0	5	28	37	10	6	0	1	0	87	160	247
PCT	.0	.0	2.0	11.3	15.0	4.0	2.4	.0	.4	.0	35.2	64.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.0	.0	.5	1.0	11.6	84.9	199
06&09	.0	.0	.0	3.1	9.4	87.5	64
12&15	.0	.0	.8	1.6	26.8	70.7	123
18&21	.0	.0	.0	6.2	6.2	87.7	65
TOT	4	0	2	10	66	369	451
PCT	.9	.0	.4	2.2	14.6	81.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NM >4/8), BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.7	16.7	18.5	64.8	54
06&09	.0	3.4	15.3	20.3	64.4	59
12&15	.0	.0	20.0	21.5	58.5	65
18&21	.0	1.7	10.2	25.4	64.4	59
TOT	0	5	37	51	149	237
PCT	.0	2.1	15.6	21.5	62.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.3	1.0	.3	.0	.0	6	1.6
85/89	.0	.0	.3	.0	5.0	10.5	4.5	.3	78	20.4
80/84	.0	.0	.0	.0	6.3	19.1	28.5	8.4	238	62.3
75/79	.0	.0	.0	.0	.8	1.0	7.3	5.8	57	14.9
70/74	.0	.0	.0	.0	.0	.0	.3	.5	3	.8
TOTAL	0	0	1	1	50	118	155	57	382	100.0
PCT	.0	.0	.3	.3	13.1	30.9	40.6	14.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	.0	.0	.5	.0	.0	.0	.6	.0	.0
3.2	2.6	2.4	2.6	1.3	1.7	3.9	2.3	.0	.5
4.3	6.9	16.8	15.2	4.1	2.5	3.5	6.3	.0	2.6
.9	2.5	2.2	2.8	1.8	1.4	.5	1.6	.0	1.3
.0	.3	.0	.3	.3	.0	.0	.0	.0	.0
8.9	12.3	21.3	21.4	7.4	5.6	7.9	10.9	.0	4.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	95	92	90	84	79	75	73	84.2	221
06&09	86	85	85	82	77	75	75	81.6	71
12&15	85	84	83	80	78	75	75	80.5	157
18&21	84	83	82	80	75	74	74	80.0	70
TOT	95	91	88	82	78	75	73	82.1	519

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.8	23.2	42.1	26.2	6.7	75	164
06&09	.0	.0	9.7	25.8	50.0	14.5	81	62
12&15	.0	.0	4.7	19.8	51.9	23.6	84	106
18&21	.0	.0	3.3	23.0	49.2	24.6	84	61
TOT	0	3	51	120	159	60	80	393

JANUARY

PERIOD: (PRIMARY) 1937-1978
(OVER-ALL) 1874-1978

AREA 0013 FIJI ISLANDS
17.5S 51.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	<73	77 76	81 80	85 84	89 88	>92 92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.3	.0	1	.0	.3
14/16	.0	.0	.0	.0	.6	.0	2	.0	.6
11/13	.0	.0	.0	.0	.3	.3	2	.0	.6
9/10	.0	.0	.0	.3	.3	.0	2	.0	.6
7/8	.0	.0	.0	.0	.6	.0	2	.0	.6
6	.0	.0	.0	.0	.6	.0	2	.0	.6
5	.0	.0	.0	.6	.8	.0	5	.0	1.4
4	.0	.0	.0	1.1	.0	.0	4	.0	1.1
3	.0	.0	1.4	2.0	.0	.0	12	.3	3.1
2	.0	.0	2.3	3.4	.0	.0	20	.0	5.6
1	.0	.8	4.2	1.1	.3	.0	23	.0	6.5
0	.0	1.1	11.3	2.3	.0	.0	52	.3	14.4
-1	.0	5.9	11.3	.8	.0	.0	64	.6	17.5
-2	.0	4.2	12.4	.0	.0	.0	59	.0	16.7
-3	.3	6.2	4.0	.0	.0	.0	37	.0	10.5
-4	.3	4.2	2.8	.0	.0	.0	26	.0	7.3
-5	.3	2.8	.6	.0	.0	.0	13	.0	3.7
-6	.8	2.8	.6	.0	.0	.0	15	.0	4.2
-7/-8	1.1	.8	.6	.0	.0	.0	9	.0	2.5
-9/-10	1.1	.0	.0	.0	.0	.0	4	.0	1.1
TOTAL	14	103	182	41	13	1	354	4	350
PCT	4.0	29.1	51.4	11.6	3.7	.3	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.6	3.2	.4	.0	.0	.0	3.6
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	1.9	.6	.0	.0	5.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.6	.0	.0	.0	1.1
1-2	.6	1.1	1.7	.0	.0	.0	3.3
3-4	.0	1.9	2.5	.0	.0	.0	4.4
5-6	.0	.6	.0	.6	.0	.0	1.1
7	.0	.0	.6	1.1	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.2	5.3	1.7	.0	.0	11.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.6	.0	.0	.0	3.2
1-2	.0	9.0	3.8	.0	.0	.0	12.8
3-4	.0	2.5	4.4	.0	.0	.0	6.9
5-6	.0	.6	1.9	.6	.0	.0	3.1
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.7	12.4	.6	.0	.0	27.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	.7	.0	.0	.0	.0	2.4
1-2	.0	2.9	2.4	.0	.0	.0	5.3
3-4	.0	1.7	10.3	.6	.0	.0	12.5
5-6	.0	.6	2.6	1.1	.0	.0	4.3
7	.0	.0	1.3	.0	.6	.0	1.8
8-9	.0	.6	.0	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	6.4	16.5	2.2	.6	.0	27.4

PERIOD: (OVER-ALL) 1968-1978

JANUARY

AREA 0013 FIJI ISLANDS
17.5S 51.5E

TABLE 1B (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
1-2	.0	2.5	.0	.0	.0	.0	2.5	.0	1.7	.0	.0	.0	.0	2.2
3-4	.0	1.0	1.2	.0	.0	.0	2.2	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.0	1.4	.6	.0	.0	1.9	.0	.0	.7	.6	.0	.0	1.3
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.5	3.6	.6	.0	.0	8.2	.0	2.5	1.8	.6	.0	.0	4.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	.0	.0	.0	.0	.0	.6	1.1	.6	.0	.0	.0	.0	1.7	
1-2	.9	.4	.0	.0	.0	.0	1.4	.0	1.4	.1	.0	.0	.0	1.5	
3-4	.0	1.0	1.4	.0	.0	.0	2.4	.0	.0	.1	.0	.0	.0	.1	
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	1.4	2.4	.0	.0	.0	4.3	1.1	3.1	.3	.0	.0	.0	4.4	93.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.9	4.9	1.1	.0	.0	.0	17.8	
1-2	.5	22.2	8.6	.0	.0	.0	31.4	
3-4	.0	8.1	21.1	.5	.0	.0	29.7	
5-6	.0	1.6	7.0	3.2	.0	.0	11.9	
7	.0	.5	4.3	1.1	.5	.0	6.5	
8-9	.0	.5	.0	.0	.0	.0	.5	
10-11	.0	.0	.5	.5	.0	.0	1.1	
12	.0	.5	.0	.0	.0	.0	.5	
13-16	.0	.0	.0	.5	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.4	38.4	42.7	5.9	.5	.0	100.0	185

PERIOD: (OVER-ALL) 1950-1978

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.3	7.9	15.7	6.5	5.1	1.4	.9	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	4
6-7	.0	1.4	6.0	8.4	5.6	2.8	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	6
8-9	.0	.5	.9	2.3	2.8	1.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
10-11	.0	.5	.9	.0	.9	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
12-13	.0	.0	.5	1.9	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
>13	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	6.0	.5	4.2	1.4	.5	.5	.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	3
TOTAL	20	23	63	45	35	15	10	1	3	0	0	0	0	0	0	0	0	0	0	215	5
PCT	9.3	10.7	29.3	20.9	16.3	7.0	4.7	.5	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1874-1970

AREA 0013 FIJI ISLANDS
17.6S 53.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	13.6	6.7	.0	.0	.0	.0	.0	22.3	1.9	.0	.0	.0	.0		.0	75.7
NE	19.9	3.4	1.4	.0	.0	.0	.0	26.7	5.1	1.4	.0	.0	.0		.0	66.8
E	5.8	5.0	.0	.0	.0	.0	.0	11.4	7.2	1.9	2.3	.0	.0		.0	78.1
SE	.5	6.0	.0	.0	.0	.0	.0	7.1	4.0	2.1	.5	.0	.0		.0	86.2
S	2.5	3.4	.0	.0	.0	.0	.0	5.9	2.5	6.8	3.4	.0	.0		.0	81.4
SW	10.3	5.9	.0	.0	.0	.0	.0	16.2	13.2	.0	.0	.0	5.9		.0	64.7
W	22.7	.0	.0	.0	.0	.0	.0	22.7	.0	.0	.0	.0	.0		.0	77.3
NW	4.6	4.6	.0	.0	.0	.0	.0	9.2	.0	.0	.0	.0	.0		.0	90.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	9.1	.0	.0	.0	.0	.0	9.1	18.2	.0	27.3	.0	.0		.0	45.5
TOT PCT	8.0	5.9	.2	.0	.0	.0	.0	14.2	5.0	1.7	1.7	.0	.2		.0	77.6
TOT OBS:	424															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.5	6.3	1.1	.0	.0	.0	.0	14.9	4.6	.0	1.1	.0	.0		.0	79.3
06&09	10.0	3.8	.0	.0	.0	.0	.0	13.8	5.0	1.3	2.5	.0	.0		.0	78.8
12&15	8.3	6.3	.0	.0	.0	.0	.0	16.5	2.8	5.0	1.7	.0	.0		.0	74.4
18&21	6.2	3.1	.0	.0	.0	.0	.0	9.2	9.2	1.5	1.5	.0	1.5		.0	76.9
TOT PCT	8.0	5.9	.5	.0	.0	.0	.0	14.3	4.8	1.8	1.6	.0	.2		.0	77.5
TOT OBS:	440															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.2	3.1	5.6	.2	.8	.2		12.0	12.5	12.8	50.0	9.3	19.4	12.8	.0	10.1	.0
NE	1.0	7.4	3.7	1.2	.7	1.4		15.4	16.2	15.1	50.0	14.1	33.3	12.1	50.0	19.0	33.3
E	1.9	11.7	10.9	1.1	.4	.0		26.0	11.2	24.1	.0	29.8	19.4	28.8	25.0	22.6	25.0
SE	4.0	8.6	7.8	2.2	.3	.0		22.9	10.7	23.8	.0	24.4	16.7	22.7	.0	23.0	8.3
S	.8	3.2	2.9	.3	.1	.0		7.4	10.6	5.0	.0	9.9	.0	10.1	.0	6.0	25.0
SW	.8	1.8	1.3	.1	.2	.0		4.2	11.0	6.3	.0	.6	.0	3.1	.0	5.6	8.3
W	.2	1.0	1.0	.2	.2	.0		2.6	13.6	3.8	.0	2.2	11.1	.7	.0	2.8	.0
NW	.9	3.4	2.2	.7	.0	.0		7.2	10.9	7.4	.0	5.8	.0	7.7	25.0	7.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	1.6	.0	3.8	.0	2.2	.0	3.2	.0
TOT OBS	68	196	172	29	13	8	486		11.7	189	2	78	9	139	4	62	3
TOT PCT	14.0	40.3	35.4	6.0	2.7	1.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.1	7.2	.6	.9	.2		12.0	12.5	13.2	10.3	12.4	9.6
NE	4.0	7.3	1.1	1.5	1.4		15.4	16.2	15.4	16.1	13.1	19.6
E	6.5	15.3	3.9	.4	.0		26.0	11.2	23.8	28.7	28.7	22.7
SE	8.9	9.8	3.5	.7	.0		22.9	10.7	23.6	23.6	22.0	22.3
S	2.5	3.7	.9	.3	.0		7.4	10.6	5.0	8.9	9.8	6.9
SW	1.3	2.0	.6	.3	.0		4.2	11.0	6.3	.6	3.0	5.8
W	.5	1.3	.6	.2	.0		2.6	13.6	3.8	3.2	.7	2.7
NW	2.9	3.0	1.1	.3	.0		7.2	10.9	7.3	5.2	8.2	7.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	1.6	3.4	2.1	3.1
TOT OBS	155	241	60	22	8	486		11.7	191	87	143	65
TOT PCT	31.9	49.6	12.3	4.5	1.6		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.5	20.4	41.4	29.3	3.7	2.1	1.6	10.1	100.0	191
06&09	3.4	5.7	35.6	49.1	9.2	4.6	2.3	14.1	100.0	87
12&15	2.1	6.3	39.2	43.4	5.6	2.1	1.4	12.2	100.0	143
18&21	3.1	6.2	40.2	30.8	9.2	3.1	1.5	12.5	100.0	65
TOT	11	57	196	172	29	13	8	11.7		486
PCT	2.3	11.7	40.3	35.4	6.0	2.7	1.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	1.8	5.6	3.5		6.0
NE	.6	3.4	7.0	6.4		6.1
E	3.9	7.9	10.2	4.3		4.9
SE	2.5	6.1	8.3	3.1		4.9
S	.8	1.5	4.4	1.1		5.6
SW	.0	.9	2.0	.9		5.8
W	.0	.7	1.0	.7		5.3
NW	.9	2.2	2.7	1.5		5.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.4	2.1	.8		5.3
TOT OBS	23	60	104	54	241	5.4
TOT PCT	9.5	24.9	43.2	22.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 2999	3000 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.0	.0	.8	2.6	.6	.3	.0	.0	.0	6.5	
NE	.1	.0	.0	1.7	3.2	1.9	.0	.0	.4	.0	10.2	
E	.7	.0	.0	.4	2.2	2.0	1.0	.0	.0	.0	19.9	
SE	.1	.0	.4	2.5	3.1	.5	.3	.0	.0	.0	13.1	
S	.0	.0	.7	1.9	.7	.8	.3	.0	.0	.0	3.3	
SW	.0	.0	.5	.2	.4	.4	.0	.0	.0	.0	2.3	
W	.4	.0	.0	.0	.7	.0	.0	.0	.0	.0	1.3	
NW	.0	.0	.0	.0	1.6	.4	.1	.0	.0	.0	5.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.4	.0	1.2	.0	.4	.0	.0	.0	1.7	
TOT OBS	4	0	5	18	38	16	6	0	1	0	153	241
TOT PCT	1.7	.0	2.1	7.5	15.8	6.6	2.5	.0	.4	.0	63.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6000	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
= OR >3000	1.6	2.0	2.0	2.4	2.4	2.4	2.4	2.4
= OR >2000	8.1	8.5	8.9	9.3	9.3	9.3	9.3	9.3
= OR >1000	20.2	23.4	24.2	24.6	24.6	24.6	24.6	24.6
= OR >600	23.0	29.8	31.5	31.9	31.9	31.9	31.9	31.9
= OR >300	24.2	32.3	33.9	34.3	34.3	34.3	34.3	34.3
= OR >150	24.2	32.3	33.9	34.3	34.3	34.3	34.3	34.3
= OR > 0	25.0	33.5	35.1	35.9	35.9	35.9	35.9	35.9
TOTAL	62	83	87	89	89	89	89	89

TOTAL NUMBER OF OBS: 248 PCT FREQ NH <5/8: 64.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.2	5.1	19.9	22.7	11.6	9.7	5.8	5.4	17.0 .7	277

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	1.2	.5	.0	.0	.2	.0	.0	.0	.0	1.9	
	NO PCP	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	1.4	.5	.2	.0	.2	.0	.0	.0	.0	2.4	
2<5	PCP	.4	.3	.2	.0	.2	.1	.0	.1	.0	.0	1.2	
	NO PCP	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.7	.3	.2	.5	.2	.1	.0	.1	.0	.0	1.9	
5<10	PCP	1.5	1.6	1.6	.7	.0	.1	.1	.5	.0	.0	6.1	
	NO PCP	2.2	1.5	6.1	4.8	1.7	.3	.0	.7	.0	.5	18.0	
	TOT %	3.8	3.1	7.7	5.5	1.7	.4	.1	1.2	.0	.5	24.1	
10+	PCP	.5	1.3	.7	.7	.2	.2	.5	.1	.0	.2	4.7	
	NO PCP	6.8	10.2	10.4	15.2	4.8	3.1	2.0	6.3	.0	1.9	66.7	
	TOT %	7.3	11.5	17.0	19.1	5.1	3.3	2.5	6.4	.0	2.1	71.4	
	TOT OBS												423
	TOT PCT	12.0	16.4	25.4	22.3	7.0	4.0	2.6	7.7	.0	2.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0		.5	
	22+	.0	1.4	.0	.0	.0	.0	.0	.0	.0		1.4	
	TOT %	.0	1.4	.5	.2	.0	.2	.0	.0	.0	.0	2.3	
2<5	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.2	.0	.0	.2	.0	.0	.0	.1	.0		.5	
	11-21	.2	.2	.3	.0	.0	.0	.0	.0	.0		.7	
	22+	.2	.2	.0	.2	.2	.1	.0	.0	.0		.9	
	TOT %	.6	.4	.3	.5	.2	.3	.0	.1	.0	.0	2.3	
5<10	0-3	.7	.4	.8	1.0	.2	.0	.0	.2	.0	.5	3.8	
	4-10	.9	1.1	2.3	1.4	.6	.0	.0	.2	.0		6.6	
	11-21	1.6	.7	4.5	2.2	.9	.2	.1	.4	.0		10.6	
	22+	.5	.9	.1	.8	.0	.2	.0	.5	.0		3.1	
	TOT %	3.8	3.1	7.7	5.5	1.7	.4	.1	1.2	.0	.5	23.9	
10+	0-3	1.5	.8	1.1	2.9	.7	.2	.2	.8	.0	2.1	10.3	
	4-10	1.9	6.3	8.7	6.6	2.4	1.8	.9	3.3	.0		31.9	
	11-21	3.8	3.1	6.3	5.4	1.6	1.2	.9	1.9	.0		24.2	
	22+	.4	1.3	.8	1.2	.3	.1	.4	.4	.0		4.7	
	TOT %	7.5	11.4	16.9	16.0	5.0	3.3	2.5	6.3	.0	2.1	71.1	
	TOT OBS												426
	TOT PCT	12.1	16.4	25.4	22.2	6.9	4.2	2.6	7.6	.0	2.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.9	.0	.0	4.4	16.2	5.9	2.9	.0	1.5	.0	33.8	66.2	68
06&09	1.3	.0	.0	8.0	17.3	5.3	2.7	.0	.0	.0	34.7	65.3	75
12&15	1.8	.0	1.8	8.9	8.8	8.8	1.8	.0	.0	.0	31.6	68.4	57
18&21	.0	.0	8.3	6.7	15.0	6.7	1.7	.0	.0	.0	38.3	61.7	60
TOT	4	0	6	18	38	17	6	0	1	0	90	170	260
PCT	1.5	.0	2.3	6.9	14.6	6.5	2.3	.0	.4	.0	34.6	65.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.6	.0	2.3	1.1	25.0	70.5	176
06&09	1.2	.0	2.5	6.2	14.8	75.3	81
12&15	.0	.0	2.5	.8	38.8	57.9	121
18&21	.0	.0	1.5	4.6	7.7	86.2	65
TOT	2	1	10	11	108	311	443
PCT	.5	.2	2.3	2.5	24.4	70.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50VSBY	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.1	3.1	9.2	26.2	64.6	65
06&09	2.7	2.7	13.7	24.7	61.6	73
12&15	1.9	3.7	14.8	20.4	64.8	54
18&21	.0	8.9	17.9	21.4	60.7	56
TOT	5	11	34	58	156	248
PCT	2.0	4.4	13.7	23.4	62.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.8	.8	.0	.3	.3	8	2.1
85/89	.0	.0	.0	.3	2.1	8.1	3.4	.5	55	14.4
80/84	.0	.0	.0	.0	1.8	19.7	38.1	8.1	258	67.7
75/79	.0	.0	.0	.0	.0	.3	6.6	6.9	60	15.7
TOTAL	0	0	0	4	18	107	184	68	381	100.0
PCT	.0	.0	.0	1.0	4.7	28.1	48.3	17.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.0	.0	1.0	.3	.3	.0	.0	.0	.3
1.2	2.4	1.7	2.8	1.3	1.0	1.4	2.0	.0	.5
8.1	9.8	19.0	15.2	5.1	3.0	1.2	5.2	.0	1.0
1.9	3.2	4.5	3.9	.6	.4	.2	1.0	.0	.0
11.5	15.5	25.2	23.0	7.2	4.7	2.8	8.3	.0	1.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	94	91	89	83	79	76	76	83.6	197
06&09	93	92	86	82	79	77	77	82.1	86
12&15	84	83	83	81	78	77	77	80.7	148
18&21	84	83	83	81	78	75	75	80.7	65
TOT	94	90	87	82	78	77	75	82.1	496

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.7	8.7	39.6	32.9	16.1	80	149
06&09	.0	.0	5.3	26.7	57.3	10.7	82	75
12&15	.0	.0	2.6	18.4	58.8	20.2	85	114
18&21	.0	.0	.0	17.9	57.1	25.0	85	56
TOT	0	4	20	110	191	69	82	394

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.3	.0	.0	1	.0	.3
7/8	.0	.0	.0	.6	.0	2	.0	.6
6	.0	.0	.0	.0	.3	1	.0	.3
5	.0	.0	.0	.6	.6	4	.0	1.1
4	.0	.3	.0	1.1	.3	6	.0	1.7
3	.0	.0	1.7	1.7	.3	13	.0	3.6
2	.0	.0	2.5	2.2	.0	17	.0	4.7
1	.0	1.9	6.4	2.5	.0	39	.6	10.2
0	.0	1.7	6.9	1.1	.0	33	.0	9.7
-1	.0	3.3	15.5	.6	.0	70	.8	18.6
-2	.0	3.3	11.1	.6	.0	54	.0	15.0
-3	.0	4.4	7.2	.0	.0	42	.3	11.4
-4	.3	4.7	5.5	.0	.0	38	.0	10.5
-5	.6	3.6	2.8	.0	.0	25	.3	6.6
-6	.0	1.9	1.1	.0	.0	11	.0	3.0
-7/-8	.0	.3	.0	.0	.0	1	.0	.3
-9/-10	.3	.3	.0	.0	.0	2	.0	.6
TOTAL	4	93	220	39	5	361	7	354
PCT	1.1	25.8	60.9	10.8	1.4	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4
1-2	.4	1.3	2.3	.0	.0	.0	4.0
3-4	.0	2.1	1.6	.0	.0	.0	3.7
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	1.1	.4	.0	.0	1.5
8-9	.0	.0	.0	.0	.5	.0	.5
10-11	.0	.0	.0	.0	.5	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.5	6.0	.4	.5	.5	11.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.3
1-2	.0	5.9	.9	.0	.0	.0	6.8
3-4	.0	1.3	1.9	.0	.0	.0	3.2
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	1.1	.5	.0	1.6
8-9	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.5	.0	.5
12	.0	.0	.0	.5	.0	.5	1.1
13-16	.0	.0	.0	.5	.5	.5	1.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	7.9	3.3	3.2	1.6	1.1	17.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.9	.0	.0	.0	.0	3.5
1-2	.4	7.4	2.9	.0	.0	.0	10.7
3-4	.0	3.2	4.8	.0	.0	.0	8.0
5-6	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	13.5	11.6	.5	.0	.0	26.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.7	.5	.0	.0	.0	1.7
1-2	.7	3.1	1.5	.0	.0	.0	5.2
3-4	.0	1.6	2.4	.0	.0	.0	4.0
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	1.9	.0	.0	.0	1.9
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.1	.0	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	5.3	7.6	1.6	.0	.0	15.8

PERIOD: (OVER-ALL) 1963-1978

FEBRUARY

AREA 0013 FIJI ISLANDS
17.6S 53.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.0	.0	.0	.0	1.6
1-2	.0	.8	1.5	.0	.0	.0	2.3
3-4	.0	1.1	.4	.0	.0	.0	1.5
5-6	.0	.0	.0	.4	.0	.0	.4
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.5	.0	.4	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.5	.0	.0	.0	.5
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.5	3.9	.8	.0	.0	8.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.5	.0	.0	.0	1.7
3-4	.0	.0	1.7	.0	.0	.0	1.7
5-6	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.5	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	2.3	.3	.5	.0	4.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.5	.0	.0	.0	.9
3-4	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.0	.5	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	1.5	.4	.5	.0	2.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.5	.0	.0	.0	.0	1.1	
1-2	.7	2.4	.0	.0	.0	.0	3.1	
3-4	.0	.3	1.7	.0	.0	.0	2.0	
5-6	.0	.0	1.1	.5	.0	.0	1.6	
7	.0	.0	.0	.3	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	3.2	2.8	.8	.0	.0	8.0	95.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.9	5.8	.5	.0	.0	.0	14.2	
1-2	2.1	23.2	10.0	.0	.0	.0	35.3	
3-4	.0	9.5	15.3	.0	.0	.0	24.7	
5-6	.0	.0	6.3	1.1	.0	.0	7.4	
7	.0	.0	4.7	2.1	.5	.0	7.4	
8-9	.0	.0	1.1	2.1	1.6	.0	4.7	
10-11	.0	.0	.0	.0	.5	.5	1.1	
12	.0	.5	.0	1.1	.0	.5	2.1	
13-16	.0	.0	.0	1.6	.5	.5	2.6	
17-19	.0	.0	.5	.0	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								190
TOT PCT	10.0	38.9	38.4	7.9	3.2	1.6	100.0	

PERIOD: (OVER-ALL) 1949-1978

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	9.1	12.5	6.9	3.9	1.7	.0	.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	4
6-7	.0	3.4	5.2	3.0	4.7	3.0	.9	.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	6
8-9	.0	2.2	3.0	4.3	2.2	1.7	2.6	.9	.4	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	43	7
10-11	.0	1.7	.9	.4	.4	.4	1.3	.4	.0	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	15	10
12-13	.0	.0	.9	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	4	8
>13	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	2	18
INDET	3.0	2.2	1.7	.9	.9	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	3
TOTAL	11	43	56	42	29	16	13	7	8	2	3	1	0	0	0	1	0	0	0	232	6
PCT	4.7	18.5	24.1	18.1	12.5	6.9	5.6	3.0	3.4	.9	1.3	.4	.0	.0	.0	.4	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1874-1970

AREA 0013 FIJI ISLANDS
17.5S 55.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	9.1	8.2	.0	.0	.0	.0	.0	17.3	6.4	1.8	.0	.0	.0	.0	.0	74.5
NE	9.8	2.7	.0	.0	.0	.0	.0	12.5	5.4	3.6	.0	.0	.0	.0	.0	78.8
E	1.2	6.0	.0	.0	.0	.0	.0	7.3	5.4	.0	.0	.0	.0	.0	.0	87.3
SE	.4	4.4	.0	.0	.0	.0	.0	2.8	3.6	.0	2.4	.0	.0	.0	.0	91.2
S	4.8	.0	.0	.0	.0	.0	.0	4.8	.0	.0	3.2	.0	.0	.0	.0	91.9
SW	.0	30.8	15.4	.0	.0	.0	.0	46.2	.0	.0	.0	.0	.0	.0	.0	53.8
W	.0	14.3	.0	.0	.0	.0	.0	14.3	.0	.0	7.1	.0	.0	.0	.0	78.6
NW	3.7	7.3	3.7	.0	.0	.0	.0	14.7	.0	3.7	5.5	.0	.0	.0	.0	76.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0	93.8
TOT PCT	3.4	5.2	.7	.0	.0	.0	.0	9.3	3.9	1.4	1.4	.0	.0	.0	.0	84.2
TOT OBS:	291															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.3	4.9	.8	.0	.0	.0	.0	7.6	4.6	.0	.0	.0	.0	.0	.0	87.8
06&09	2.4	2.4	2.4	.0	.0	.0	.0	7.1	2.4	.0	.0	.0	.0	.0	.0	90.5
12&15	5.0	8.4	.0	.0	.0	.0	.0	14.5	1.2	4.8	4.8	.0	.0	.0	.0	74.7
18&21	2.1	2.1	.0	.0	.0	.0	.0	4.3	6.4	.0	.0	.0	.0	.0	.0	89.4
TOT PCT	3.3	5.0	.7	.0	.0	.0	.0	8.9	3.6	1.3	1.3	.0	.0	.0	.0	84.8
TOT OBS:	303															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	4.1	3.7	.3	.0	.0		9.4	10.2	12.2	.0	10.3	.0	7.3	.0	5.3	.0
NE	2.6	7.9	3.8	.1	.0	.0		14.3	8.8	10.3	.0	10.9	62.5	19.7	.0	16.5	.0
E	2.7	14.7	11.1	.5	.0	.0		29.0	9.7	29.2	.0	18.5	37.5	26.6	.0	45.2	.0
SE	3.1	9.3	8.5	.0	.0	.0		20.9	9.1	23.0	.0	29.9	.0	18.1	.0	13.8	.0
S	1.3	4.1	2.1	.0	.0	.0		7.6	7.9	8.5	.0	7.6	.0	7.3	.0	5.9	.0
SW	.1	1.5	.6	.3	.0	.0		2.5	9.1	1.0	.0	6.0	.0	3.4	.0	2.1	.0
W	.6	1.4	.8	.0	.0	.0		2.7	8.7	3.3	.0	1.6	.0	3.7	.0	.0	.0
NW	.9	4.6	2.0	.6	.3	.0		8.4	10.7	7.8	.0	10.9	.0	7.3	.0	9.0	100.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0	4.7	.0	4.3	.0	6.4	100.0	2.1	.0
TOT OBS	63	170	116	6	1	0	356		8.9	150	0	46	2	109	1	47	1
TOT PCT	17.7	47.8	32.6	1.7	.3	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.6	3.8	2.0	.0	.0		9.4	10.2	12.2	9.9	7.3	5.2
NE	5.9	6.6	1.8	.1	.0		14.3	8.8	10.3	13.0	19.5	16.1
E	10.1	16.1	2.3	.5	.0		29.0	9.7	29.2	19.3	26.4	44.3
SE	6.7	13.2	1.0	.0	.0		20.9	9.1	23.0	28.6	18.0	13.5
S	3.1	4.5	.0	.0	.0		7.6	7.9	8.5	7.3	7.3	5.7
SW	1.5	.8	.3	.0	.0		2.5	9.1	1.0	5.7	3.4	2.1
W	1.1	1.1	.6	.0	.0		2.7	8.7	3.3	1.6	3.6	.0
NW	3.1	3.7	1.3	.3	.0		8.4	10.7	7.8	10.4	7.3	10.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	4.7	4.2	7.3	2.1
TOT OBS	143	177	33	3	0	356		8.9	150	48	110	48
TOT PCT	40.2	49.7	9.3	.8	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.7	21.3	44.7	28.0	1.3	.0	.0	8.0	100.0	150
06&09	4.2	12.5	54.2	22.9	6.3	.0	.0	9.1	100.0	48
12&15	7.3	6.4	50.0	35.5	.9	.0	.0	9.1	100.0	110
18&21	4.1	.0	45.8	50.0	.0	2.1	.0	11.1	100.0	48
TOT	18	45	170	116	6	1	0	8.9		356
PCT	5.1	12.6	47.8	32.6	1.7	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	2.0	2.1	3.1		5.5
NE	1.1	3.2	6.7	5.1		5.8
E	3.2	8.9	10.3	5.1		5.0
SE	5.1	7.1	8.0	3.5		4.5
S	1.7	1.1	.5	1.5		4.4
SW	.6	.0	.2	.6		6.8
W	.5	.0	2.3	.0		5.7
NW	.8	2.9	3.1	3.8		5.8
VAR	.0	.0	.0	.0		.0
CALM	3.1	1.8	.6	.0		2.7
TOT OBS	27	44	55	37	163	5.0
TOT PCT	16.6	27.0	33.7	22.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.9	.9	1.1	.0	.0	.0	.0	.0	5.8	
NE	.0	.0	.3	2.8	2.3	.6	.0	.0	.0	.0	10.1	
E	.0	.0	.6	2.8	2.1	1.2	.0	.0	.0	.0	20.7	
SE	.0	.0	.0	.8	2.0	.6	.0	.0	.6	.0	19.6	
S	.0	.0	.0	.0	.5	.6	.0	.0	.0	.0	3.7	
SW	.0	.0	.0	.3	.6	.0	.0	.0	.0	.0	.2	
W	.0	.0	.6	.5	.6	.0	.0	.0	.0	.0	1.1	
NW	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	8.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	4.9	
TOT OBS	0	0	4	16	16	5	0	0	1	0	121	163
TOT PCT	.0	.0	2.5	9.8	9.8	3.1	.0	.0	.6	.0	74.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5040	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
= OR >3300	.6	.6	.6	.6	.6	.6	.6	.6
= OR >2000	2.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5
= OR >1000	10.6	12.4	13.5	13.5	13.5	13.5	13.5	13.5
= OR >600	15.9	21.8	22.9	22.9	22.9	22.9	22.9	22.9
= OR >300	17.1	23.5	25.3	25.3	25.3	25.3	25.3	25.3
= OR >150	17.1	23.5	25.3	25.3	25.3	25.3	25.3	25.3
= OR > 0	17.1	23.5	25.3	25.3	25.3	25.3	25.3	25.3
TOTAL	29	40	43	43	43	43	43	43

TOTAL NUMBER OF OBS: 170 PCT FREQ NH <5/8: 74.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.8	11.9	25.4	19.2	14.7	4.5	6.2	4.5	10.7	.0	177

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.6	.2	.3	.0	.0	.3	.0	.0	.0	.0	1.4	
	NO PCP	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.6	.5	.3	.3	.0	.3	.0	.0	.0	.0	2.1	
5<10	PCP	1.0	.4	.8	.5	.0	.3	.3	1.0	.0	.0	4.3	
	NO PCP	1.0	2.5	4.7	3.6	1.2	.4	.4	.9	.0	.7	15.5	
	TOT %	2.1	2.9	5.5	4.1	1.2	.8	.8	1.9	.0	.7	19.9	
10+	PCP	.0	1.4	1.0	.1	.3	.3	.0	.3	.0	.0	3.4	
	NO PCP	6.8	11.0	21.6	16.9	3.9	.8	1.6	6.8	.0	4.8	74.2	
	TOT %	6.8	12.4	22.7	17.0	4.1	1.1	1.6	7.1	.0	4.8	77.7	
	TOT OBS												291
	TOT PCT	9.5	15.8	28.4	21.5	5.3	2.2	2.4	9.4	.0	5.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.3	.0	.0	.0		.3	
	11-21	.6	.5	.3	.3	.0	.0	.0	.0	.0		1.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.5	.3	.3	.0	.3	.0	.0	.0	.0	2.0	
5<10	0-3	.0	.4	.3	.8	.5	.0	.0	.0	.0	.7	2.7	
	4-10	1.2	1.5	2.4	1.3	.7	.4	.8	.8	.0		9.1	
	11-21	.7	1.0	2.2	2.0	.2	.3	.0	.0	.0		6.4	
	22+	.3	.1	.6	.0	.0	.0	.0	1.0	.0		2.0	
	TOT %	2.2	3.0	5.4	4.2	1.3	.8	.8	1.9	.0	.7	20.2	
10+	0-3	1.6	2.7	2.9	2.8	.8	.2	.3	1.1	.0	4.7	17.2	
	4-10	2.4	6.6	12.0	8.2	1.7	.6	.7	3.9	.0		36.0	
	11-21	2.6	2.9	7.9	6.4	1.5	.3	.6	2.0	.0		24.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	6.6	12.1	22.9	17.3	4.0	1.1	1.6	7.0	.0	4.7	77.4	
	TOT OBS												297
	TOT PCT	9.4	15.7	28.5	21.9	5.4	2.2	2.4	9.2	.0	5.4	100.0	

PERIOD: (PRIMARY) 1934-1978
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	UNU 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	3.6	10.7	8.9	.0	.0	.0	.0	.0	23.2	76.8	56
06609	.0	.0	.0	15.4	10.3	2.6	.0	.0	.0	.0	28.2	71.8	39
12615	.0	.0	2.7	8.1	8.1	5.4	.0	.0	2.7	.0	27.0	73.0	37
18621	.0	.0	2.4	2.4	11.9	4.8	.0	.0	.0	.0	21.4	78.6	42
TOT	0	0	4	16	17	5	0	0	1	0	43	131	174
PCT	.0	.0	2.3	9.2	9.8	2.9	.0	.0	.6	.0	24.7	75.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	.0	.0	.7	15.6	83.7	135
06609	.0	.0	.0	4.8	16.7	78.6	42
12615	.0	1.4	.0	2.4	34.1	62.4	85
18621	.0	.0	.0	2.1	8.5	89.4	47
TOT	0	1	0	6	61	241	309
PCT	.0	.3	.0	1.9	19.7	78.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	3.6	16.4	9.1	74.5	55
06609	.0	.0	20.5	10.3	69.2	39
12615	.0	2.9	14.3	14.3	71.4	35
18621	.0	2.4	4.9	17.1	78.0	41
TOT	0	4	24	21	125	170
PCT	.0	2.4	14.1	12.4	73.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
100/104	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
95/99	.0	.0	.4	.4	.0	.4	.0	.0	3	1.1
90/94	.0	.0	.0	.4	1.5	.4	1.5	.4	11	4.0
85/89	.0	.0	.4	.0	2.5	6.2	5.5	1.8	45	16.4
80/84	.0	.0	.0	.0	7.3	20.7	30.5	6.9	180	65.5
75/79	.0	.0	.0	.0	1.1	1.8	4.0	5.5	34	12.4
70/74	.0	.0	.0	.0	.0	.0	.0	.4	1	.4
TOTAL	0	0	2	2	34	82	114	41	275	100.0
PCT	.0	.0	.7	.7	12.4	29.8	41.5	14.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
.0	.0	.4	.7	.0	.0	.0	.0	.0	.0
.4	1.1	1.4	.5	.0	.0	.0	.4	.0	.4
2.8	2.1	5.2	2.6	.5	.2	1.1	.7	.0	1.1
3.9	8.8	19.6	17.3	4.2	1.0	1.3	5.4	.0	4.0
1.5	1.6	3.5	1.9	2.2	.6	.0	1.1	.0	.0
.0	.0	.3	.1	.0	.0	.0	.0	.0	.0
8.5	13.6	30.6	23.1	6.9	1.8	2.4	7.5	.0	5.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	102	96	91	84	80	77	77	85.1	156
06609	87	86	86	82	79	76	76	81.9	46
12615	85	84	83	81	78	73	73	80.9	112
18621	84	83	83	81	78	75	75	80.6	48
TOT	102	94	89	82	78	76	73	82.8	362

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00609	.0	3.3	15.4	34.1	34.1	13.0	78	123
06609	.0	.0	15.4	17.9	51.3	15.4	81	39
12615	.0	.0	6.3	30.0	48.8	15.0	82	80
18621	.0	.0	11.4	31.8	38.6	18.2	81	44
TOT	0	4	35	87	118	42	80	286

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	/3 /6	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.4	.0	1	.0	.4
11/13	.0	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.0	.0	.9	.0	2	.0	.9
5	.0	.0	.0	.4	.0	.0	1	.0	.4
4	.0	.0	.0	.4	.0	.0	1	.0	.4
3	.0	.0	.4	1.8	.0	.0	5	.0	2.2
2	.0	.0	2.2	6.2	.0	.0	19	.0	8.4
1	.0	.0	5.3	1.8	.0	.0	16	.0	7.0
0	.0	1.3	12.3	1.3	.0	.0	34	.4	14.5
-1	.0	2.2	14.1	.4	.0	.0	38	.0	16.7
-2	.0	4.8	15.0	.0	.0	.0	45	.4	19.4
-3	.0	7.0	4.4	.0	.0	.0	26	.9	10.6
-4	.0	3.1	5.3	.0	.0	.0	19	.0	8.4
-5	.0	1.8	.4	.0	.0	.0	5	.0	2.2
-6	.4	3.5	.4	.0	.0	.0	10	.0	4.4
-7/-8	.4	.4	.4	.0	.0	.0	3	.0	1.3
-9/-10	.4	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	3		137		3			4	223
		55		28		1	227		
PCT	1.3	24.2	60.4	12.3	1.3	.4	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.6	.0	.6	.0	.0	.0	1.2
3-4	.0	.0	2.8	.0	.0	.0	2.8
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.8	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.6	5.2	.8	.0	.0	7.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.8	.0	.0	.0	.0	3.0
1-2	.8	3.0	1.0	.0	.0	.0	4.8
3-4	.8	1.6	1.2	.2	.0	.0	3.8
5-6	.0	.8	2.2	.0	.0	.0	3.0
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	8.2	5.4	.2	.0	.0	15.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	3.4	.8	.0	.0	.0	4.8
1-2	.0	8.6	3.2	.0	.0	.0	11.8
3-4	.0	1.4	6.0	.6	.0	.0	8.0
5-6	.0	.0	3.4	.0	.0	.0	3.4
7	.0	.0	2.4	.0	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.8	.0	.0	.0	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	14.2	15.8	.6	.0	.0	31.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.4	.0	.0	.0	.0	1.2
1-2	.8	5.2	3.2	.0	.0	.0	9.2
3-4	.0	5.0	3.2	.0	.0	.0	8.2
5-6	.0	.0	2.8	.0	.0	.0	2.8
7	.0	.0	1.6	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	10.6	10.8	.0	.0	.0	23.0

PERIOD: (OVER-ALL) 1963-197R

MARCH

AREA 0013 FIJI ISLANDS
17.5S 53.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.8	1.8	.0	.0	.0	3.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	.0	.0	.0	.0	1.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.6	.0	.0	.0	.0	.6
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	1.4	.0	.0	.0	2.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	
1-2	1.0	.8	.8	.0	.0	.0	2.6	
3-4	.0	4.0	.8	.0	.0	.0	4.8	
5-6	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	1.0	.0	.0	.0	1.0	
8-9	.0	.0	.0	1.6	.0	.0	1.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	6.4	2.8	1.6	.0	.0	11.8	95.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.6	9.4	.8	.0	.0	.0	18.8	
1-2	3.9	18.0	8.6	.0	.0	.0	30.5	
3-4	.8	12.5	14.8	.8	.0	.0	28.9	
5-6	.0	.8	10.2	.0	.0	.0	10.9	
7	.0	.0	7.8	.0	.0	.0	7.8	
8-9	.0	.0	.0	2.3	.0	.0	2.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.8	.0	.0	.0	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								128
TOT PCT	13.3	41.4	42.2	3.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1955-197R

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.6	7.2	18.3	10.5	3.3	1.3	.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	4
6-7	.0	2.6	5.9	7.8	3.9	3.3	1.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	5
8-9	.0	2.0	3.3	3.9	3.3	.7	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	5
10-11	.0	1.3	.7	1.3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
12-13	.0	.0	.7	1.3	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
>13	.0	.0	.0	1.3	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	1.3	.0	.0	.7	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
TOTAL	9	20	44	41	18	9	5	1	6	0	0	0	0	0	0	0	0	0	0	153	5
PCT	5.9	13.1	28.8	26.8	11.8	5.9	3.3	.7	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1930-1977
(OVER-ALL) 1874-1977

AREA 0013 FIJI ISLANDS
17.5S 49.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	13.3	9.6	8.4	.0	.0	.0	.0	31.3	.0	.0	.0	.0	.0		.0	68.7
NE	7.1	9.0	3.2	.0	.0	.0	.0	19.2	2.6	5.1	.0	.0	2.6		.0	70.5
E	6.3	10.1	.0	.0	.0	.0	.0	16.4	.8	2.9	2.1	.0	.0		.0	78.8
SE	3.8	5.4	.0	.0	.0	.0	.0	9.3	2.5	.4	1.2	.0	.0		.0	86.9
S	.0	7.7	.0	.0	.0	.0	.0	7.7	3.8	3.8	.0	.0	.0		.0	84.6
SW	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	5.6	.0	.0	.0		.0	83.3
W	6.8	6.8	3.4	.0	.0	.0	.0	16.9	5.1	5.9	.0	.0	.0		.0	74.6
NW	5.2	.0	2.6	.0	.0	.0	.0	7.8	6.5	.0	.0	.0	.0		.0	85.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	14.3	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0		.0	85.7
TOT PCT	5.3	7.5	1.6	.0	.0	.0	.0	14.3	2.2	2.2	.9	.0	.3		.0	80.4
TOT OBS:	322															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.0	4.5	2.3	.0	.0	.0	.0	9.8	.8	.0	1.5	.0	.0		.0	87.9
06&09	13.3	.0	.0	.0	.0	.0	.0	13.3	6.7	.0	.0	.0	2.2		.0	77.8
12&15	5.4	13.5	.0	.0	.0	.0	.0	18.9	1.8	5.4	.9	.0	.0		.0	73.9
18&21	2.0	7.8	5.9	.0	.0	.0	.0	15.7	2.0	2.0	.0	.0	.0		.0	80.4
TOT PCT	5.0	7.4	1.8	.0	.0	.0	.0	14.2	2.1	2.1	.9	.0	.3		.0	80.8
TOT OBS:	339															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	4.2	1.0	.4	.2	.0		6.5	9.5	2.9	12.5	9.8	9.4	8.3	.0	7.2	25.0
NE	3.1	5.1	3.6	.3	.0	.0		12.0	8.9	13.6	12.5	7.1	15.6	11.0	50.0	13.0	.0
E	2.7	12.9	13.0	1.0	.0	.0		29.6	11.0	34.0	25.0	17.4	25.0	31.2	.0	26.4	25.0
SE	2.9	11.9	11.7	1.3	1.0	.0		28.9	12.4	25.7	25.0	41.3	37.5	32.4	.0	19.7	8.3
S	.5	5.5	2.0	.0	.0	.0		8.1	8.4	9.7	25.0	4.3	.0	4.8	.0	15.4	.0
SW	.1	1.8	.7	.0	.0	.0		2.6	8.2	2.2	.0	.0	.0	3.5	.0	4.8	.0
W	.6	1.6	2.0	.0	.0	.0		4.2	9.9	5.6	.0	6.5	12.5	2.5	.0	1.9	.0
NW	.0	2.4	2.6	.6	.1	.0		5.6	14.1	2.9	.0	11.4	.0	4.7	50.0	7.7	41.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	3.4	.0	2.2	.0	1.6	.0	3.8	.0
TOT OBS	52	177	143	14	5	0	391		10.6	147	4	46	8	129	2	52	3
TOT PCT	13.3	45.3	36.6	3.6	1.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	2.6	.3	.6	.0		6.5	9.5	3.1	9.7	8.2	8.2
NE	4.9	5.6	1.2	.3	.0		12.0	8.9	13.6	8.3	11.6	12.3
E	7.2	16.1	5.8	.5	.0		29.6	11.0	33.8	18.5	30.7	26.4
SE	6.5	14.8	6.6	.0	1.0		28.9	12.4	25.7	40.7	31.9	19.1
S	3.2	4.3	.5	.0	.0		8.1	8.4	10.1	3.7	4.8	14.5
SW	1.5	.8	.3	.0	.0		2.6	8.2	2.2	.0	3.4	4.5
W	1.5	2.2	.5	.0	.0		4.2	9.9	5.5	7.4	2.5	1.8
NW	.4	3.5	1.0	.6	.0		5.6	14.1	2.8	9.7	5.3	9.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	3.3	1.9	1.5	3.6
TOT OBS	120	196	63	8	4	391		10.6	131	54	131	55
TOT PCT	30.7	50.1	16.1	2.0	1.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1930-1977
(OVER-ALL) 1874-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.3	16.6	41.7	37.1	1.3	.0	.0	9.3	100.0	151
06&09	1.9	.0	48.1	40.7	5.6	3.7	.0	13.2	100.0	54
12&15	1.5	9.2	48.1	34.4	4.6	2.3	.0	11.1	100.0	131
18&21	3.6	9.1	45.5	36.4	5.5	.0	.0	10.5	100.0	55
TOT	10	42	177	143	14	5	0	10.6		391
PCT	2.6	10.7	45.3	36.6	3.6	1.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	1.9	1.3	4.0		6.4
NE	1.1	3.6	5.3	2.6		5.3
E	4.9	5.4	11.7	6.1		5.1
SE	0.3	2.2	12.1	6.3		5.1
S	2.9	1.4	3.6	1.4		4.7
SW	.6	.7	.7	.7		4.6
W	.7	1.0	1.1	1.7		5.6
NW	1.1	2.1	3.2	1.7		5.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.6		8.0
TOT OBS	32	33	70	45	180	5.2
TOT PCT	17.8	18.3	38.9	25.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.6	.8	.6	.6	.0	.0	.0	.0	5.0	
NE	.0	.0	.0	1.8	1.1	1.1	.0	.0	.0	.0	8.6	
E	.4	.0	.6	1.4	5.8	.6	.0	.6	.0	.0	18.8	
SE	.1	.0	.0	5.0	5.3	.6	.0	.6	.0	.0	15.3	
S	.0	.0	.0	.8	1.1	.4	.0	.0	.0	.0	6.9	
SW	.0	.0	.0	.0	.6	.1	.0	.0	.0	.0	1.9	
W	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	3.3	
NW	.0	.0	.0	1.8	.6	.0	.0	.0	.0	.0	5.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	1	0	2	23	28	6	0	2	0	0	118	180
TOT PCT	.6	.0	1.1	12.8	15.6	3.3	.0	1.1	.0	.0	65.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5DYD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >2000	3.3	4.4	4.4	4.4	4.4	4.4	4.4	4.4
= OR >1000	16.5	19.2	19.2	19.2	19.2	19.2	19.2	19.2
= OR >600	24.7	31.3	31.9	32.4	33.0	33.0	33.0	33.0
= OR >300	24.7	31.9	33.0	33.5	34.1	34.1	34.1	34.1
= OR >150	24.7	31.9	33.0	33.5	34.1	34.1	34.1	34.1
= OR > 0	24.7	32.4	33.5	34.1	34.6	34.6	34.6	34.6
TOTAL	45	59	61	62	63	63	63	63

TOTAL NUMBER OF OBS: 182 PCT FREQ NH <5/8: 65.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.7	8.5	29.8	13.8	10.6	8.0	6.4	6.9	12.8 .5	188

APRIL

PERIOD: (PRIMARY) 1930-1977
(OVER-ALL) 1874-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
1<2	PCP	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.6	
2<5	PCP	.5	.4	.3	.0	.0	.0	.0	.0	.0	.3	1.6	
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.5	.4	.3	.3	.0	.0	.0	.0	.0	.3	1.9	
5<10	PCP	.3	1.2	3.3	1.4	.3	.3	.8	.2	.0	.0	7.8	
	NO PCP	1.5	1.7	6.2	9.4	1.0	.5	.5	1.3	.0	.0	18.0	
	TOT %	1.8	3.0	9.5	6.6	1.3	.8	1.2	1.5	.0	.0	25.8	
10+	PCP	.9	.7	1.2	.9	.3	.0	.0	.0	.0	.0	4.0	
	NO PCP	3.0	8.1	18.3	20.2	6.4	2.0	3.3	4.2	.0	1.9	67.4	
	TOT %	3.8	8.8	19.6	21.1	6.8	2.0	3.3	4.2	.0	1.9	71.4	
	TOT OBS												322
	TOT PCT	6.4	12.1	29.3	28.5	8.1	2.8	4.6	6.0	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	TOT %	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.6	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	.2	.4	.0	.3	.0	.0	.0	.0	.0		.9	
	TOT %	.5	.4	.3	.3	.0	.0	.0	.0	.0	.3	1.8	
5<10	0-3	.3	2.1	.5	.7	.0	.2	.2	.0	.0	.0	4.0	
	4-10	1.2	.5	3.8	2.9	.6	.2	.2	.8	.0		10.1	
	11-21	.0	.6	4.7	2.4	.7	.5	.9	.3	.0		10.1	
	22+	.2	.0	.3	.9	.0	.0	.0	.4	.0		1.8	
	TOT %	1.8	3.2	9.3	7.0	1.3	.8	1.2	1.5	.0	.0	26.0	
10+	0-3	.3	.9	2.1	1.8	.6	.0	.6	.0	.0	1.8	8.3	
	4-10	2.6	4.7	8.6	9.5	4.9	1.6	1.5	1.4	.0		34.9	
	11-21	.6	3.0	8.0	8.6	1.6	.4	1.1	2.7	.0		26.0	
	22+	.2	.0	.8	1.0	.0	.0	.0	.1	.0		2.1	
	TOT %	3.7	8.6	19.6	20.9	7.1	2.0	3.3	4.1	.0	1.8	71.3	
	TOT OBS												327
	TOT PCT	6.3	12.2	29.2	28.5	8.4	2.8	4.5	5.9	.0	2.1	100.0	

PERIOD: (PRIMARY) 1930-1977
(OVER-ALL) 1874-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	17.8	11.1	2.2	.0	2.2	.0	.0	33.3	66.7	45
06&09	.0	.0	2.2	8.7	15.2	.0	.0	.0	.0	.0	26.1	73.9	46
12&15	2.2	.0	2.2	15.2	17.4	6.5	.0	2.2	.0	.0	45.7	54.3	46
18&21	.0	.0	.0	12.0	16.0	4.0	.0	.0	.0	.0	32.0	68.0	50
TOT	1	0	2	25	28	6	0	2	0	0	64	123	187
PCT	.5	.0	1.1	13.4	15.0	3.2	.0	1.1	.0	.0	34.2	65.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	1.5	28.4	70.1	134
06&09	.0	.0	2.2	8.7	4.3	84.8	46
12&15	.0	.9	.9	.0	43.8	54.5	112
18&21	.0	1.9	.0	.0	17.3	80.8	52
TOT	0	2	2	6	98	236	344
PCT	.0	.6	.6	1.7	28.5	68.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	17.8	15.6	66.7	45
06&09	.0	2.3	15.9	13.6	70.5	44
12&15	2.2	6.5	19.6	26.1	54.3	46
18&21	.0	.0	12.8	21.3	66.0	47
TOT	1	4	30	35	117	182
PCT	.5	2.2	16.5	19.2	64.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.4	.7	.0	.0	.7	.0	5	1.8
90/94	.0	.0	.0	.7	.4	.4	.4	.4	6	2.2
85/89	.0	.0	.0	.4	1.1	3.3	1.5	1.1	20	7.4
80/84	.0	.0	.0	.7	6.6	18.8	26.8	6.6	162	59.6
75/79	.0	.0	.0	.0	1.1	3.7	15.4	7.7	76	27.9
70/74	.0	.0	.0	.0	.0	.0	.0	1.1	3	1.1
TOTAL	0	0	1	7	25	71	122	46	272	100.0
PCT	.0	.0	.4	2.6	9.2	26.1	44.9	16.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.6	.6	.0	.4	.0	.0	.4
.0	.0	.0	1.1	.3	.1	.3	.4	.0	.0
.3	1.9	1.8	1.5	.6	.1	.3	.5	.0	.4
5.0	6.8	17.6	16.0	5.7	1.6	2.1	3.8	.0	1.1
2.1	1.9	8.1	9.0	2.7	.9	1.0	1.5	.0	.7
.0	.2	.5	.1	.0	.0	.0	.0	.0	.4
7.4	10.8	27.9	28.2	9.8	2.7	4.1	6.1	.0	2.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	99	98	92	82	78	74	72	84.1	159
06&09	86	85	83	81	76	75	75	80.5	54
12&15	85	84	82	80	77	75	73	79.8	137
18&21	83	82	82	80	77	75	75	79.8	54
TOT	99	95	88	81	77	74	72	81.2	404

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	7.1	17.3	32.7	26.5	16.3	78	98
06&09	.0	2.0	4.0	22.0	50.0	22.0	83	50
12&15	.0	.0	6.1	19.5	59.8	14.6	83	82
18&21	.0	.0	4.3	31.9	48.9	14.9	82	47
TOT	0	8	26	74	123	46	81	277

APRIL

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.4	.4	2	.0	.7
7/8	.0	.0	.0	.4	.7	3	.0	1.1
5	.0	.0	.4	.7	.0	3	.0	1.1
4	.0	.4	.4	.0	.4	3	.0	1.1
3	.0	.7	.0	1.1	.4	6	.0	2.2
2	.0	.0	1.1	1.4	.0	7	.0	2.5
1	.0	1.1	4.0	.7	.0	16	.0	5.8
0	.0	3.6	13.7	.0	.0	48	.0	17.3
-1	.0	7.6	10.5	.7	.0	32	.7	18.1
-2	.0	6.9	7.9	.0	.0	41	.4	14.4
-3	.7	6.9	5.8	.0	.0	37	.0	13.4
-4	.0	5.8	2.5	.0	.0	23	.0	8.3
-5	.7	4.7	1.4	.0	.0	19	.0	6.9
-6	.0	1.8	.0	.0	.0	5	.0	1.8
-7/-8	1.4	1.8	.0	.0	.0	9	.0	3.2
-9/-10	.7	.4	.0	.0	.0	3	.0	1.1
TOTAL	10	115	132	15	5	277	3	274
PCT	3.6	41.4	47.6	5.5	1.8	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	3.8	.7	.0	.0	.0	4.5
3-4	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.5	.0	.5
13-16	.0	.0	.0	.5	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	1.4	1.0	.5	.0	7.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.0	.0	.0	.0	2.1
1-2	.0	6.5	.2	.0	.0	.0	6.7
3-4	.0	.7	.9	.0	.0	.0	1.5
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	8.6	1.9	.9	.0	.0	12.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.7	8.2	1.9	.0	.0	.0	10.8
3-4	.0	2.9	4.5	.0	.0	.0	7.4
5-6	.0	.0	3.3	.0	.0	.0	3.3
7	.0	.0	2.4	.0	.0	.0	2.4
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	11.8	12.0	.5	.0	.0	25.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.7	8.4	3.4	.0	.0	.0	12.5
3-4	.0	4.1	6.3	.0	.0	.0	10.4
5-6	.0	.0	3.3	.7	.0	.0	3.9
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	1.5	.2	.0	.0	1.7
10-11	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.7	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	12.5	16.8	.9	.7	.0	31.5

PERIOD: (OVER-ALL) 1964-1977 APRIL AREA 0013 FIJI ISLANDS

TABLE 18 (CONT) 17.5S 49.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7
1-2	.0	3.6	.7	.0	.0	.0	4.3
3-4	.0	1.9	1.2	.0	.0	.0	3.1
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.5	4.1	.0	.0	.0	10.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.7	.2	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	.9	.0	.0	.0	2.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.0	1.9	.0	.0	.0	1.9
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	3.3	.0	.0	.0	3.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.0	.7	.0	.0	.0	.7	
3-4	.0	.0	1.5	.0	.0	.0	1.5	
5-6	.0	.0	2.1	.0	.0	.0	2.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.2	.0	.2	
13-16	.0	.0	.0	.9	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.7	.0	.0	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.2	4.3	1.5	.2	.0	6.2	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.0	3.4	.0	.0	.0	.0	5.4	
1-2	1.4	32.4	7.4	.0	.0	.0	41.2	
3-4	.0	10.8	16.2	.0	.0	.0	27.0	
5-6	.0	.0	12.2	.7	.0	.0	12.8	
7	.0	.0	4.7	.0	.0	.0	4.7	
8-9	.0	.0	2.0	1.4	.0	.0	3.4	
10-11	.0	.0	1.4	.7	.0	.0	2.0	
12	.0	.0	.0	.0	.7	.0	.7	
13-16	.0	.0	.0	1.4	.7	.0	2.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.7	.0	.0	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.4	46.6	43.9	4.7	1.4	.0	100.0	140

PERIOD: (OVER-ALL) 1952-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	10.5	12.8	6.4	7.6	2.3	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	4
6-7	.0	4.1	7.6	4.7	4.7	1.7	.0	.6	2.3	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	46	6
8-9	.0	.6	1.2	1.7	2.9	1.2	2.9	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	19	8
10-11	.0	.0	.6	1.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
12-13	.0	.0	1.7	.6	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
>13	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	1.7	.6	2.9	2.3	1.7	.6	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
TOTAL	8	27	46	31	29	12	8	3	5	0	1	2	0	0	0	0	0	0	0	172	5
PCT	4.7	15.7	26.7	18.0	16.9	7.0	4.7	1.7	2.9	.0	.6	1.2	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1852-1977

AREA 0013 FIJI ISLANDS
17.5S 40.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	6.7	9.3	.0	.0	.0	.0	.0	16.0	.0	.0	16.0	.0	.0	.0	.0	68.0
E	3.0	9.5	.0	.0	.0	.0	.0	12.4	2.5	.5	2.0	.0	3.0	.0	.0	79.5
SE	2.6	3.5	.0	.0	.0	.0	.0	6.1	1.5	1.3	.0	.0	.4	.0	.0	90.6
S	12.5	9.1	.0	.0	.0	.0	.0	21.6	8.0	4.5	.0	.0	6.8	.0	.0	63.6
SW	13.8	13.8	.0	.0	.0	.0	.0	27.6	.0	.0	.0	.0	.0	.0	.0	72.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	36.4	.0	.0	.0	.0	.0	36.4	.0	.0	.0	.0	.0	.0	.0	63.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.1	9.1	9.1	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0	.0	81.8
TOT PCT	4.1	6.8	.3	.0	.0	.0	.0	11.0	2.1	1.0	1.7	.0	1.7	.0	.0	82.9
TOT OBS:	292															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	1.1	6.8	.0	.0	.0	.0	.0	8.0	3.4	.0	4.6	.0	3.4	.0	.0	80.5
06609	4.4	2.2	.0	.0	.0	.0	.0	6.7	2.2	.0	.0	.0	2.2	.0	.0	88.9
12615	4.7	10.4	.0	.0	.0	.0	.0	15.1	.9	2.8	1.9	.0	.9	.0	.0	79.2
18621	7.0	3.5	1.8	.0	.0	.0	.0	10.5	1.8	.0	.0	.0	.0	.0	.0	87.7
TOT PCT	4.1	6.8	.3	.0	.0	.0	.0	10.8	2.0	1.0	2.0	.0	1.7	.0	.0	82.7
TOT OBS:	295															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	1.7	1.3	.0	.0	.0		3.3	9.7	3.7	.0	7.0	.0	2.8	.0	1.7	.0
NE	.6	3.7	2.9	.0	.0	.0		7.2	8.9	6.9	.0	7.0	5.0	9.6	12.5	3.0	.0
E	2.6	10.6	17.6	2.5	.0	.0		33.3	12.6	28.0	50.0	20.9	35.0	39.0	37.5	39.0	25.0
SE	1.7	15.4	18.4	1.5	.0	.0		37.1	11.8	34.3	50.0	44.2	60.0	32.3	50.0	43.2	75.0
S	.3	3.9	2.9	.6	.0	.0		7.6	11.7	7.6	.0	13.4	.0	8.5	.0	3.0	.0
SW	.6	1.3	.3	.9	.0	.0		3.0	11.7	5.6	.0	.6	.0	3.3	.0	.0	.0
W	.9	.7	1.0	.6	.0	.0		3.2	11.7	7.2	.0	.0	.0	.6	.0	4.2	.0
NW	.0	.6	.7	.0	.0	.0		1.4	12.3	2.1	.0	.0	.0	1.6	.0	.8	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0							4.0	.0	4.6	.0	7.0	.0	2.4	.0	5.1	.0
TOT OBS	38	132	157	21	0	0	348		11.3	108	2	43	5	127	2	59	2
TOT PCT	10.9	37.9	45.1	6.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.7	2.3	.3	.0	.0		3.3	9.7	3.6	6.3	2.7	1.6
NE	3.3	3.2	.6	.0	.0		7.2	8.9	6.8	6.8	9.7	2.9
E	6.9	16.2	10.2	.0	.0		33.3	12.6	28.4	22.4	39.0	38.5
SE	7.5	22.2	7.3	.0	.0		37.1	11.8	34.5	45.8	32.6	44.3
S	1.1	5.7	.5	.3	.0		7.6	11.7	7.5	12.0	8.3	2.9
SW	1.1	1.0	.9	.0	.0		3.0	11.7	5.5	.5	3.3	.0
W	.9	1.5	.6	.0	.0		3.2	11.7	7.0	.0	.6	4.1
NW	.3	.4	.6	.0	.0		1.4	12.3	2.0	.0	1.6	.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.0						4.0	.0	4.5	6.3	2.3	4.9
TOT OBS	90	183	74	1	0	348		11.3	110	48	129	61
TOT PCT	25.9	52.6	21.3	.3	.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1862-1977

AREA 0013 FIJI ISLANDS
17.5S 40.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	4.5	10.9	37.3	40.9	6.4	.0	.0	10.8	100.0	110
06609	6.3	6.3	27.1	56.3	4.2	.0	.0	11.7	100.0	48
12615	2.3	6.2	42.6	43.4	5.4	.0	.0	11.1	100.0	129
18621	4.9	1.6	37.7	47.5	8.2	.0	.0	12.2	100.0	61
TOT	14	24	132	157	21	0	0	11.3		348
PCT	4.0	6.9	37.9	45.1	6.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.6	1.2	.6		5.7
NE	1.2	.6	2.1	.9		4.5
E	7.5	2.1	15.5	9.5		5.4
SE	7.5	9.5	16.4	11.4		5.1
S	.0	2.1	3.9	.5		5.1
SW	.0	.3	.0	.6		6.0
W	.0	.9	1.1	.0		4.3
NW	.0	.8	.2	.0		3.3
VAR	.0	.0	.0	.0		.0
CALM	.6	.6	.6	1.7		5.2
TOT OBS	28	29	68	41	166	5.2
TOT PCT	16.9	17.5	41.0	24.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
NE	.0	.0	.2	1.9	.0	.0	.0	.0	.0	.0	3.2	
E	.0	.0	1.1	5.9	5.0	3.8	.0	.0	.0	.5	17.9	
SE	.0	.0	.6	3.9	6.2	5.3	.0	.6	.6	.8	27.4	
S	.0	.0	.0	.0	2.7	.6	.0	.0	.0	.0	3.2	
SW	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.3	
W	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.4	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	1.2	.0	.0	.0	.0	.0	1.2	
TOT OBS	0	0	3	20	27	16	0	1	1	2	96	166
TOT PCT	.0	.0	1.8	12.0	16.3	9.6	.0	.6	.6	1.2	57.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
▪ OR >5000	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4
▪ OR >3500	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4
▪ OR >2000	10.8	12.0	12.0	12.0	12.0	12.0	12.0	12.0
▪ OR >1000	24.7	27.7	28.3	28.3	28.3	28.3	28.3	28.3
▪ OR >600	35.5	39.8	40.4	40.4	40.4	40.4	40.4	40.4
▪ OR >300	36.1	41.0	41.6	41.6	41.6	42.2	42.2	42.2
▪ OR >150	36.1	41.0	41.6	41.6	41.6	42.2	42.2	42.2
▪ OR > 0	36.1	41.0	41.6	41.6	41.6	42.2	42.2	42.2
TOTAL	60	68	69	69	69	70	70	70

TOTAL NUMBER OF OBS: 166 PCT FREQ NH <5/8: 57.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.7	13.7	17.0	9.9	14.8	10.4	9.9	7.1	14.3	.0	182

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1862-1977

AREA 0013 FIJI ISLANDS
17.6S 40.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.2	.2	.3	.0	.0	.0	.0	.7	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.0	.5	3.1	1.7	1.2	.3	.0	.0	.0	.7	7.5	
	NO PCP	1.0	2.0	4.4	6.3	1.1	.0	.3	.0	.0	1.0	16.1	
	TOT %	1.0	2.5	7.4	8.0	2.3	.3	.3	.0	.0	1.7	23.6	
10+	PCP	.0	.4	.9	.7	.4	.0	.0	.3	.0	.0	2.7	
	NO PCP	2.1	3.4	24.7	29.9	4.6	1.8	2.5	.6	.0	2.1	71.6	
	TOT %	2.1	3.9	25.5	30.6	5.1	1.8	2.5	.9	.0	2.1	74.3	
	TOT OBS												292
	TOT PCT	3.1	6.4	33.9	39.0	7.5	2.5	2.8	.9	.0	3.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.3	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.2	.2	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0		.3	
	TOT %	.0	.0	.0	.2	.2	.3	.0	.0	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
5<10	0-3	.3	.3	.3	1.4	.3	.0	.3	.0	.0	1.7	4.8	
	4-10	.3	1.6	2.1	2.9	1.2	.3	.0	.0	.0		8.6	
	11-21	.3	.5	4.6	3.3	.8	.0	.0	.0	.0		9.6	
	22+	.0	.0	.3	.3	.0	.0	.0	.0	.0		.7	
	TOT %	1.0	2.5	7.4	8.0	2.3	.3	.3	.0	.0	1.7	23.6	
10+	0-3	.0	.3	2.1	.7	.0	.3	.3	.0	.0	2.1	5.8	
	4-10	1.0	1.8	6.7	11.3	2.4	.9	.9	.4	.0		25.3	
	11-21	1.0	1.8	14.7	17.1	2.0	.3	.9	.5	.0		38.4	
	22+	.0	.0	2.0	1.5	.7	.3	.3	.0	.0		4.8	
	TOT %	2.1	3.9	25.5	30.6	5.1	1.8	2.5	.9	.0	2.1	74.3	
	TOT OBS												292
	TOT PCT	3.1	6.4	33.9	39.0	7.5	2.5	2.8	.9	.0	3.8	100.0	

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1862-1977

AREA 0013 FIJI ISLANDS
17.5S 40.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	10.3	10.3	7.7	.0	2.6	.0	.0	30.8	69.2	39
06&09	.0	.0	.0	7.7	15.4	10.3	.0	.0	.0	.0	33.3	66.7	39
12&15	.0	.0	.0	11.1	13.3	11.1	.0	.0	2.2	4.4	42.2	57.8	45
18&21	.0	.0	5.7	15.1	20.8	7.5	.0	.0	.0	.0	49.1	50.9	53
TOT	0	0	3	20	27	16	0	1	1	2	70	106	176
PCT	.0	.0	1.7	11.4	15.3	9.1	.0	.6	.6	1.1	39.8	60.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	2.3	1.1	.0	24.1	72.4	87
06&09	.0	.0	.0	2.2	11.1	86.7	45
12&15	.0	.9	.9	.0	36.8	51.3	106
18&21	1.8	.0	.0	.0	8.8	89.5	57
TOT	1	3	2	1	70	218	295
PCT	.3	1.0	.7	.3	23.7	73.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	11.8	23.5	64.7	34
06&09	.0	.0	10.5	23.7	65.8	38
12&15	.0	.0	11.6	32.6	55.8	43
18&21	.0	5.9	21.6	29.4	49.0	51
TOT	0	3	24	46	96	166
PCT	.0	1.8	14.5	27.7	57.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.9	.4	.0	.0	3	1.3
80/84	.0	.0	.0	.0	2.1	11.6	15.0	3.0	74	31.8
75/79	.0	.0	.0	.4	10.3	22.7	20.2	12.4	154	66.1
70/74	.0	.0	.0	.0	.4	.0	.0	.4	2	.9
TOTAL	0	0	0	1	32	81	82	37	233	100.0
PCT	.0	.0	.0	.4	13.7	34.8	35.2	15.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.4	.9	.0	.0	.0	.0	.0	.0
2.6	5.3	7.7	9.4	2.5	.5	1.4	1.1	.0	1.3
.4	2.3	26.6	27.6	3.5	1.5	.3	.0	.0	3.9
.0	.0	.0	.9	.0	.0	.0	.0	.0	.0
3.0	7.5	34.8	38.7	6.0	2.0	1.7	1.1	.0	5.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	89	86	81	76	73	73	80.6	112
06&09	82	81	81	79	75	72	72	78.8	47
12&15	82	81	81	78	75	74	74	78.1	129
18&21	83	82	81	78	75	74	74	78.1	61
TOT	91	86	83	79	75	73	72	79.0	349

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	20.4	46.3	24.1	9.3	78	54
06&09	.0	.0	9.8	26.8	43.9	19.5	82	41
12&15	.0	1.2	11.9	33.3	36.9	16.7	81	84
18&21	.0	.0	13.0	31.5	37.0	18.5	81	54
TOT	0	1	32	81	82	37	80	233

MAY

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1862-1977

AREA 0013 FIJI ISLANDS
17.5S 40.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.0	.0	.8	.0	.4	3	.0	1.2
3	.0	.0	.0	.4	.8	.0	3	.0	1.2
2	.0	.4	.8	2.3	.0	.0	9	.4	3.1
1	.0	.0	1.5	3.9	.0	.0	14	.4	5.0
0	.0	.4	7.3	4.6	.4	.0	33	1.2	11.6
-1	.0	.8	15.4	3.5	.0	.0	51	.4	19.3
-2	.0	.4	11.2	2.3	.0	.0	36	.0	13.9
-3	.0	.8	11.2	1.2	.0	.0	34	.0	13.1
-4	.0	1.5	6.2	.0	.0	.0	20	.0	7.7
-5	.0	2.7	8.5	.4	.0	.0	30	.0	11.6
-6	.0	1.5	3.5	.4	.0	.0	14	.0	5.4
-7/-8	.0	3.1	.4	.0	.0	.0	9	.0	3.5
-9/-10	.4	.4	.0	.0	.0	.0	2	.0	.8
TOTAL	1		171		4		6		253
		31		51		1	259		
PCT	.4	12.0	66.0	19.7	1.5	.4	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1964-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.8	.0	.0	.0	.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.0	.0	.0	.0	1.1
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.9	.8	.0	.0	.0	1.7
5-6	.0	.2	.9	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.8	1.7	.0	.0	.0	4.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.3	.0	.0	.0	.0	2.7
1-2	.8	2.1	5.9	.0	.0	.0	8.7
3-4	.0	4.7	6.3	.0	.0	.0	11.0
5-6	.0	1.3	4.4	.8	.0	.0	6.4
7	.0	.0	4.4	.8	.0	.0	5.1
8-9	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.5	.0	.0	1.5
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	9.5	21.6	3.0	.0	.0	36.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.9	6.3	.0	.0	.0	12.1
3-4	.8	4.9	7.0	.8	.0	.0	13.4
5-6	.0	1.5	6.8	.8	.0	.0	9.1
7	.0	.0	4.7	.8	.0	.0	5.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	12.3	24.8	3.0	.0	.0	40.9

PERIOD: (OVER-ALL) 1963-1977

MAY

TABLE 18 (CONT)

AREA 0013 FIJI ISLANDS
17.5S 40.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	1.5	2.7	1.5	.0	.0	5.7
5-6	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	3.4	1.5	.0	.0	8.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.2	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.8	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.2	.8	.0	.0	1.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.6	.0	.0	.0	.6
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.8	.6	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	1.7	.0	.0	.0	2.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.8	.0	.0	.0	.0	.8	
3-4	.0	.0	.2	.0	.0	.0	.2	
5-6	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.8	.4	.0	.0	.0	1.1	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.1	2.3	.0	.0	.0	.0	8.3	
1-2	.8	11.4	12.9	.0	.0	.0	25.0	
3-4	.8	12.1	18.2	2.3	.0	.0	33.3	
5-6	.0	3.8	13.6	1.5	.0	.0	18.9	
7	.0	.0	9.1	2.3	.0	.0	11.4	
8-9	.0	.0	.8	.0	.0	.0	.8	
10-11	.0	.0	.0	.8	.0	.0	.8	
12	.0	.0	.0	1.5	.0	.0	1.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.6	29.5	54.5	8.3	.0	.0	100.0	132

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	8.1	14.3	8.1	5.6	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	4
6-7	.0	1.9	10.6	9.3	5.6	3.1	2.5	1.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	6
8-9	.0	.0	.6	3.1	3.1	1.2	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
10-11	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
12-13	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	2.5	.6	1.2	.6	1.9	1.2	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	6
TOTAL	5	16	47	36	28	9	10	9	1	0	0	0	0	0	0	0	0	0	0	161	5
PCT	3.1	9.9	29.2	22.4	17.4	5.6	6.2	5.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1875-1977

AREA 0013 FIJI ISLANDS
17.4S 68.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.6	.0	.0	.0	.0	.0	.0	.0	5.8	.0	.0	.0	.0	.0	94.2
NE	.0	7.6	.0	.0	.0	.0	.0	7.6	.0	.0	1.9	.0	.0	.0	.0	90.5
E	2.6	5.2	.8	.0	.0	.0	.0	7.8	2.9	1.0	1.6	.0	.0	.0	.0	86.7
SE	2.8	7.5	.9	.0	.0	.0	.0	11.1	3.6	1.5	.8	.0	.0	.0	.0	83.8
S	6.4	7.0	2.3	.0	.0	.0	.0	15.8	7.6	4.7	2.3	.0	.0	.0	.0	71.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	96.2
W	22.2	11.4	.0	.0	.0	.0	.0	33.3	.0	11.1	.0	.0	8.3	.0	.0	58.3
NW	.0	12.9	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0	.0	.0	87.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	25.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0	.0	75.0
TOT PCT	3.2	6.3	1.1	.0	.0	.0	.0	10.3	3.2	2.0	1.1	.0	.3	.0	.0	84.0
TOT OBS:	349															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.6	0.4	.6	.0	.0	.0	.0	9.0	1.3	.0	1.9	.0	.6	.0	.0	87.2
06&09	.0	.0	2.9	.0	.0	.0	.0	2.9	5.9	2.9	.0	.0	.0	.0	.0	88.2
12&15	5.0	9.3	1.4	.0	.0	.0	.0	15.7	1.4	4.3	.7	.0	.0	.0	.0	80.0
18&21	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	85.7
TOT PCT	3.0	6.3	1.1	.0	.0	.0	.0	10.1	3.0	1.9	1.1	.0	.3	.0	.0	84.4
TOT OBS:	365															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	3.1	.4	.0	.0	.0		4.1	6.8	5.6	.0	5.0	.0	2.0	.0	5.3	.0
NE	1.2	4.3	2.0	.0	.0	.0		7.6	7.9	6.8	.0	12.5	.0	7.5	100.0	3.8	25.0
E	3.2	11.3	12.1	1.2	.0	.0		27.8	11.0	25.7	.0	28.8	100.0	27.1	.0	40.9	75.0
SE	6.9	12.8	17.0	1.6	.0	.0		38.4	10.4	38.8	.0	37.5	.0	38.9	.0	37.9	.0
S	3.2	6.0	2.4	.0	.0	.0		11.6	7.3	9.7	.0	10.6	.0	15.5	.0	5.3	.0
SW	1.2	1.4	1.3	.0	.0	.0		3.9	8.6	4.4	.0	.6	.0	4.8	.0	.0	.0
W	.8	1.3	.7	.0	.0	.0		2.8	7.7	4.2	.0	.0	.0	2.4	.0	.0	.0
NW	.9	.7	.1	.0	.0	.0		1.7	4.6	2.1	.0	5.0	.0	.0	.0	3.8	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	2.8	.0	.0	.0	1.7	.0	3.0	.0
TOT OBS	94	192	169	13	0	0	468		9.4	216	0	40	1	176	1	33	1
TOT PCT	20.1	41.0	36.1	2.8	.0	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	1.8	.0	.0	.0		4.1	6.8	5.6	4.9	2.0	5.1
NE	3.5	3.9	.2	.0	.0		7.6	7.9	6.8	12.2	8.1	4.4
E	5.9	17.0	4.8	.0	.0		27.8	11.0	25.7	30.5	27.0	41.9
SE	13.2	16.3	8.4	.4	.0		38.4	10.4	38.8	36.6	38.7	36.8
S	5.8	5.3	.5	.0	.0		11.6	7.3	9.7	10.4	15.4	5.1
SW	1.8	1.4	.7	.0	.0		3.9	8.6	4.4	.6	4.8	.0
W	1.3	1.1	.4	.0	.0		2.8	7.7	4.2	.0	2.4	.0
NW	1.3	.4	.0	.0	.0		1.7	4.6	2.1	4.9	.0	3.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	2.8	.0	1.7	2.9
TOT OBS	175	221	70	2	0	468		9.4	216	41	177	34
TOT PCT	37.4	47.2	15.0	.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1875-1977

AREA 0013 FIJI ISLANDS
17.4S 68.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	25.5	36.6	32.4	2.8	.0	.0	8.6	100.0	216
06&09	.0	2.4	61.0	36.6	.0	.0	.0	10.0	100.0	41
12&15	1.7	14.7	44.6	35.0	4.0	.0	.0	9.7	100.0	177
18&21	2.9	5.9	26.5	64.7	.0	.0	.0	12.1	100.0	34
TOT	10	84	192	169	13	0	0	9.4		468
PCT	2.1	17.9	41.0	36.1	2.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	3.4	.5	.6		3.8
NE	2.4	2.4	2.1	1.3		4.0
E	7.0	11.9	10.1	4.1		4.3
SE	3.9	8.1	19.3	6.7		5.4
S	1.1	1.0	2.4	5.2		6.2
SW	.0	.2	.2	1.0		7.2
W	.0	.6	.5	.0		4.7
NW	.6	.3	.6	.0		3.5
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	.0	.0		.0
TOT OBS	27	43	55	29	154	4.8
TOT PCT	17.5	27.9	35.7	18.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	5.0	
.0	.0	.0	.0	1.3	.6	.0	.0	.0	.0	6.3	
.0	.0	1.8	2.9	2.9	1.9	.0	.0	.0	.0	23.4	
.0	.0	.8	5.0	5.8	2.1	.6	.0	.2	.0	23.4	
.6	.0	.0	2.8	1.6	1.1	.0	.0	.5	.0	3.1	
.0	.0	.0	1.0	.0	.0	.2	.0	.0	.0	.2	
.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
1	0	4	18	19	9	2	0	1	0	100	154
.6	.0	2.6	11.7	12.3	5.8	1.3	.0	.6	.0	64.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
▪ OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
▪ OR >3500	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
▪ OR >2000	6.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0
▪ OR >1000	17.2	18.5	19.1	19.1	19.1	19.1	19.1	19.1
▪ OR >600	26.8	30.6	31.2	31.2	31.2	31.2	31.2	31.2
▪ OR >300	26.8	32.5	33.1	33.1	33.8	33.8	33.8	33.8
▪ OR >150	26.8	32.5	33.1	33.1	33.8	33.8	33.8	33.8
▪ OR > 0	27.4	33.1	33.8	33.8	34.4	34.4	34.4	34.4
TOTAL	43	52	53	53	54	54	54	54

TOTAL NUMBER OF OBS: 157 PCT FREQ NH <5/8: 65.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.9	10.9	20.1	17.9	10.9	7.6	7.1	9.2	10.9 .5	184

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1875-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.0	.6	1.4	2.1	1.4	.0	.9	.3	.0	.3	6.9	
	NO PCP	1.1	1.9	6.5	12.5	5.4	1.6	.6	.4	.0	.3	30.4	
	TOT %	1.1	2.5	8.0	14.5	6.8	1.6	1.4	.7	.0	.6	37.2	
10+	PCP	.0	.0	.7	1.9	.6	.0	.0	.0	.0	.0	3.2	
	NO PCP	3.8	4.9	18.4	21.1	4.9	2.1	1.1	1.5	.0	.6	58.5	
	TOT %	3.8	4.9	19.1	23.0	5.4	2.1	1.1	1.5	.0	.6	61.6	
	TOT OBS												349
	TOT PCT	4.9	7.5	27.5	38.1	12.2	3.7	2.6	2.2	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
5<10	0-3	.3	.6	1.1	4.8	2.6	.3	.3	.3	.0	.6	10.8	
	4-10	.9	1.8	2.7	6.0	3.7	.7	.7	.3	.0		16.8	
	11-21	.0	.1	3.9	3.4	.5	.6	.4	.1	.0		9.1	
	22+	.0	.0	.1	.4	.0	.0	.0	.0	.0		.6	
	TOT %	1.1	2.5	7.9	14.7	6.7	1.6	1.4	.7	.0	.6	37.2	
10+	0-3	.3	.7	1.7	1.6	.3	.6	.3	.9	.0	.6	6.8	
	4-10	3.0	2.1	7.7	6.3	2.8	.6	.4	.6	.0		23.6	
	11-21	.5	2.3	8.7	13.8	2.3	.9	.5	.0	.0		29.0	
	22+	.0	.0	1.1	1.1	.0	.0	.0	.0	.0		2.3	
	TOT %	3.8	5.1	19.2	22.8	5.4	2.1	1.1	1.5	.0	.6	61.6	
	TOT OBS												352
	TOT PCT	4.9	7.7	27.6	38.1	12.1	3.7	2.6	2.2	.0	1.1	100.0	

PERIOD: (PRIMARY) 1943-1977
(OVER-ALL) 1875-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	10.3	6.9	1.7	1.7	.0	.0	.0	20.7	79.3	58
06&09	.0	.0	.0	21.2	9.1	6.1	.0	.0	.0	.0	36.4	63.6	33
12&15	6.0	.0	2.0	5.9	13.7	7.8	2.0	.0	2.0	.0	35.3	64.7	51
18&21	.0	.0	9.4	9.4	15.6	6.3	.0	.0	.0	.0	40.6	59.4	32
TOT	1	0	4	19	19	9	2	0	1	0	55	119	174
PCT	.6	.0	2.3	10.9	10.9	5.2	1.1	.0	.6	.0	31.6	68.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.6	.0	.0	.0	37.2	62.2	156
06&09	.0	.0	2.9	.0	5.7	91.4	35
12&15	.0	.0	.0	.7	46.5	52.8	142
18&21	.0	2.9	.0	.0	20.0	77.1	35
TOT	1	1	1	1	133	231	368
PCT	.3	.3	.3	.3	36.1	62.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <3	1000+ AND 3+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	12.2	12.2	75.5	49
06&09	.0	.0	22.6	12.9	64.5	31
12&15	2.2	4.4	13.3	26.7	60.0	45
18&21	.0	9.4	18.8	21.9	59.4	32
TOT	1	5	25	29	103	157
PCT	.6	3.2	15.9	18.5	65.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	1.1	.7	2.2	.0	.0	11	4.1
80/84	.0	.0	.0	.0	4.1	11.2	6.0	3.7	67	25.0
75/79	.0	.0	.0	1.5	5.2	22.0	24.3	9.0	166	61.9
70/74	.0	.0	.0	.0	2.2	1.5	2.2	3.0	24	9.0
TOTAL	0	0	0	7	33	99	87	42	268	100.0
PCT	.0	.0	.0	2.6	12.3	36.9	32.5	15.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	1.5	1.2	.0	.0	.3	.5	.0	.4
1.0	4.1	10.1	5.7	.9	1.4	.3	1.1	.0	.4
1.6	5.4	17.1	27.5	6.9	1.5	.5	.7	.0	.7
.0	.0	1.9	4.5	1.9	.3	.5	.0	.0	.0
2.6	9.8	30.5	38.9	9.7	3.2	1.6	2.2	.0	1.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	87	86	80	75	73	73	80.4	220
06&09	82	81	81	78	75	73	73	78.2	42
12&15	84	83	80	77	73	71	71	76.9	172
18&21	82	81	80	77	74	73	73	77.4	35
TOT	88	87	85	78	74	71	71	78.7	469

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.4	16.7	43.0	24.6	11.4	77	114
06&09	.0	5.3	7.9	23.7	47.4	15.8	80	38
12&15	.0	.0	12.7	34.3	37.3	15.7	81	102
18&21	.0	.0	.0	36.4	36.4	27.3	84	33
TOT	0	7	35	105	96	44	80	287

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PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1875-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.0	.0	1.2	3	.0	1.2
6	.0	.0	.0	.8	.8	4	.0	1.5
5	.0	.0	.0	.8	.4	3	.0	1.2
4	.0	.0	.4	.0	.0	1	.0	.4
3	.0	.4	.8	2.7	.4	11	.0	4.2
2	.0	.0	1.9	1.2	.0	8	.0	3.1
1	.0	.4	3.1	2.3	.0	15	.4	5.4
0	.0	1.9	10.0	2.7	.0	38	.4	14.3
-1	.0	2.7	12.0	.8	.0	40	.0	15.4
-2	.0	3.5	10.4	1.5	.0	40	.4	15.1
-3	.0	4.6	6.9	.8	.0	32	.4	12.0
-4	.4	5.8	5.0	.4	.0	30	.0	11.6
-5	.0	2.3	4.6	.4	.0	19	.0	7.3
-6	.4	1.9	.4	.0	.0	7	.0	2.7
-7/-8	.0	1.5	.8	.0	.0	6	.0	2.3
-9/-10	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	3	65	146	37	8	259	4	255
PCT	1.2	25.1	56.4	14.3	3.1	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	.8	.0	.0	.0	3.1
3-4	.0	.8	.0	.0	.0	.0	.8
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	1.4	.0	.0	.0	4.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.3	1.9	.0	.0	.0	6.2
3-4	.0	.2	2.5	.0	.0	.0	2.7
5-6	.0	.2	1.0	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	5.4	.0	.0	.0	10.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.8	5.2	1.2	.0	.0	.0	7.2
3-4	.0	2.9	11.8	.0	.0	.0	14.7
5-6	.0	.6	5.0	2.5	.0	.0	8.1
7	.0	.0	2.1	.0	.0	.0	2.1
8-9	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	9.5	20.9	2.5	.0	.0	33.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.0	2.9	.0	.0	.0	7.9
3-4	.0	1.4	11.8	.0	.0	.0	13.2
5-6	.0	.0	9.5	.0	.0	.0	9.5
7	.0	.0	2.3	.8	.0	.0	3.1
8-9	.0	.0	.8	.8	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.4	27.3	1.7	.0	.0	35.3

PERIOD: (OVER-ALL) 1963-1977

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.3	.6	.0	.0	.0	5.0
3-4	.0	1.9	2.9	.0	.0	.0	4.8
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.2	6.2	.0	.0	.0	12.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.0	.0	.0	.0	.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.8	.0	.0	.0	.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.8	.0	.0	.0	.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.8	.0	.0	.0	.0	.8	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.8	.0	.0	.0	.0	.8	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	.8	.0	.0	.0	.0	3.2	
1-2	2.4	21.8	8.1	.0	.0	.0	32.3	
3-4	.0	7.3	28.2	.0	.0	.0	35.5	
5-6	.0	.8	16.9	2.4	.0	.0	20.2	
7	.0	.0	5.6	.8	.0	.0	6.5	
8-9	.0	.0	1.6	.8	.0	.0	2.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								124
TOT PCT	4.8	30.6	60.5	4.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	11.2	9.8	9.1	3.5	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	4
6-7	.0	1.4	9.1	9.8	7.0	2.1	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	5
8-9	.0	.0	.0	4.9	4.2	3.5	2.8	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
10-11	.0	.7	1.4	1.4	1.4	.0	1.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.7	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	.7	.0	.0	.7	2.8	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
TOTAL	4	19	29	38	28	12	10	1	2	0	0	0	0	0	0	0	0	0	0	143	5
PCT	2.8	13.3	20.3	26.6	19.6	8.4	7.0	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1897-1977
(OVER-ALL) 1897-1977

AREA 0013 FIJI ISLANDS
17.4S 83.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	7.1	.0	.0	.0	.0	.0	7.1	.0	7.1	.0	.0	.0	.0		85.7
NE	2.4	4.8	.0	.0	.0	.0	.0	7.2	.0	1.2	.0	.0	7.2	.0		84.3
E	2.7	6.1	1.1	.0	.0	.0	.0	9.8	2.1	1.6	3.2	.0	.5	.0		83.8
SE	2.8	5.4	1.4	.0	.0	.0	.0	9.6	.7	.0	1.7	.0	.3	.0		87.6
S	.8	5.4	6.8	.0	.0	.0	1.6	13.6	.0	.0	.8	.0	.0	.0		85.7
SW	6.7	.0	1.5	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0		92.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	.0		92.1
NW	6.1	.0	.0	.0	.0	.0	.0	6.1	.0	.0	.0	.0	7.6	.0		86.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0		92.9
TOT PCT	2.4	4.8	1.9	.0	.0	.0	.2	9.4	.7	.7	1.4	.0	1.4	.0		86.5
TOT OBS:	414															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.6	5.1	1.5	.0	.0	.0	.0	9.2	.0	.0	1.5	.0	2.6	.0		86.7
06&09	4.9	2.4	2.4	.0	.0	.0	.0	9.8	.0	2.4	.0	.0	.0	.0		87.8
12&15	2.1	5.6	2.8	.0	.0	.0	.7	11.3	1.4	1.4	2.1	.0	.0	.0		84.5
18&21	.0	2.1	.0	.0	.0	.0	.0	2.1	2.1	.0	.0	.0	2.1	.0		93.6
TOT PCT	2.4	4.7	1.9	.0	.0	.0	.2	9.2	.7	.7	1.4	.0	1.4	.0		86.8
TOT OBS:	425															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	1.8	.3	.0	.0	.0		3.5	5.5	5.1	.0	3.6	.0	.9	.0	3.6	.0
NE	3.2	4.8	1.2	.0	.0	.0		9.2	6.0	10.0	.0	5.2	.0	8.0	.0	13.2	.0
E	2.5	9.7	10.7	1.1	.0	.0		23.9	11.2	23.7	.0	17.7	.0	25.1	.0	26.8	.0
SE	2.6	11.6	14.4	3.5	.0	.0		32.2	12.3	27.1	.0	30.5	100.0	35.4	.0	30.5	.0
S	2.5	8.4	4.7	.6	.0	.0		16.3	9.0	17.7	.0	14.6	.0	13.5	.0	20.5	.0
SW	.7	1.7	1.6	.0	.0	.0		3.9	8.8	4.1	.0	4.2	.0	4.1	.0	2.3	.0
W	.7	1.2	.3	.0	.0	.0		2.2	6.8	3.2	.0	.0	.0	1.5	.0	1.4	.0
NW	2.5	1.5	.2	.0	.0	.0		4.2	4.5	6.7	.0	.0	.0	2.1	.0	1.8	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6							4.6	.0	2.4	.0	4.2	.0	9.3	.0	.0	.0
TOT OBS	122	242	198	31	0	0	593		9.5	295	0	48	1	194	0	55	0
TOT PCT	20.6	40.8	33.4	5.2	.0	.0		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	1.1	.0	.0	.0		3.5	5.5	5.1	3.6	.9	3.6
NE	5.7	3.5	*	.0	.0		9.2	6.0	10.0	5.1	8.0	13.2
E	5.6	13.4	4.7	.3	.0		23.9	14.2	23.7	17.3	25.1	26.8
SE	7.7	16.0	7.6	.8	.0		32.2	12.3	27.1	31.5	35.4	30.5
S	7.4	6.7	2.2	.0	.0		16.3	9.0	17.7	14.3	13.5	20.5
SW	1.5	2.4	.0	.0	.0		3.9	8.8	4.1	4.1	4.1	2.3
W	.9	1.3	.0	.0	.0		2.2	6.8	3.2	.0	1.5	1.4
NW	2.8	1.3	.0	.0	.0		4.2	4.5	6.7	.0	2.1	1.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.6						4.6	.0	2.4	4.1	9.3	.0
TOT OBS	229	271	86	7	0	593		9.5	295	49	194	55
TOT PCT	38.6	45.7	14.5	1.2	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1897-1977
(OVER-ALL) 1857-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.4	23.1	42.4	28.8	3.4	.0	.0	8.5	100.0	295
06&09	4.1	4.1	32.7	42.9	16.3	.0	.0	12.7	100.0	49
12&15	9.3	12.9	36.1	36.1	5.7	.0	.0	9.8	100.0	194
18&21	.0	.0	56.4	40.0	3.6	.0	.0	11.6	100.0	55
TOT	27	95	242	178	31	0	0	9.5		593
PCT	4.6	16.0	40.8	33.4	5.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.3	.0	1.4		5.6
NE	3.0	.9	2.9	.2		3.6
E	5.7	7.7	7.9	3.2		4.3
SE	6.3	11.8	19.3	9.1		5.1
S	4.3	5.5	1.4	1.4		3.7
SW	.0	.9	2.9	.2		5.0
W	.0	.5	.0	.7		5.8
NW	.0	.7	.0	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.0	.0		1.0
TOT OBS	28	41	48	23	140	4.6
TOT PCT	20.0	29.3	34.3	16.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.3	
.0	.0	.0	.0	2.1	.2	.0	.0	.0	.0	4.6	
.7	.0	.0	1.8	3.2	1.8	.0	.0	.0	.0	17.0	
.0	.0	1.4	8.2	9.8	2.5	.0	.0	.7	.0	23.8	
.0	.0	.0	.0	.5	1.8	.0	.0	.0	.0	10.5	
.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	3.0	
.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
1	0	2	14	26	9	0	0	1	0	87	140
.7	.0	1.4	10.0	18.6	6.4	.0	.0	.7	.0	62.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
* OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
* OR >3500	.7	.7	.7	.7	.7	.7	.7	.7
* OR >2000	6.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7
* OR >1000	21.7	25.9	26.6	26.6	26.6	26.6	26.6	26.6
* OR >400	28.0	35.0	36.4	36.4	36.4	36.4	36.4	36.4
* OR >300	28.7	35.7	37.8	37.8	37.8	37.8	37.8	37.8
* OR >150	28.7	35.7	37.8	37.8	37.8	37.8	37.8	37.8
* OR > 0	28.7	35.7	38.5	38.5	38.5	38.5	38.5	38.5
TOTAL	41	51	55	55	55	55	55	55

TOTAL NUMBER OF OBS: 143

PCT FREQ NH <5/8: 61.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.3	9.6	14.4	20.9	12.8	6.4	10.7	11.8	8.6	.5	187

PERIOD: (PRIMARY) 1897-1977
(OVER-ALL) 1857-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.2	.7	.2	.0	.0	.0	.0	.0	1.2	
	NO PCP	.0	.0	.1	.4	.2	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.4	1.1	.5	.0	.0	.0	.0	.0	1.9	
5<10	PCP	.2	.7	1.4	1.1	1.3	.3	.0	.2	.0	.2	5.6	
	NO PCP	.5	1.7	5.6	11.1	5.1	.7	.2	1.3	.0	2.7	28.7	
	TOT %	.7	2.4	7.0	12.2	6.3	1.0	.2	1.5	.0	2.9	34.3	
10+	PCP	.0	.0	.5	1.5	.6	.0	.0	.0	.0	.0	2.7	
	NO PCP	2.7	7.6	14.9	19.6	8.2	2.9	2.1	2.5	.0	.5	60.9	
	TOT %	2.7	7.6	15.4	21.1	8.8	2.9	2.1	2.5	.0	.5	63.5	
	TOT OBS												414
	TOT PCT	3.4	10.0	22.8	34.7	15.6	3.9	2.3	4.0	.0	3.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.4	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.2	.5	.5	.0	.0	.0	.0		1.2	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.4	1.1	.5	.0	.0	.0	.0	.0	1.9	
5<10	0-3	.5	1.2	1.4	2.2	1.7	.0	.0	1.0	.0	2.9	10.9	
	4-10	.2	.8	2.3	5.7	2.5	.5	.2	.5	.0		12.8	
	11-21	.0	.4	2.8	3.1	1.4	.5	.0	.0	.0		8.2	
	22+	.0	.0	.4	1.3	.7	.0	.0	.0	.0		2.4	
	TOT %	.7	2.4	7.0	12.2	6.3	1.0	.2	1.5	.0	2.9	34.3	
10+	0-3	.7	1.8	.7	1.0	.8	.9	.8	1.4	.0	.5	8.5	
	4-10	1.7	4.6	6.4	4.9	5.1	1.0	1.1	.8	.0		25.6	
	11-21	.3	1.3	7.9	12.7	2.7	1.0	.2	.2	.0		26.3	
	22+	.0	.0	.4	2.6	.2	.0	.0	.0	.0		3.1	
	TOT %	2.7	7.6	15.4	21.1	8.8	2.9	2.1	2.5	.0	.5	63.5	
	TOT OBS												414
	TOT PCT	3.4	10.0	22.8	34.7	15.6	3.9	2.3	4.0	.0	3.4	100.0	

JULY

PERIOD: (PRIMARY) 1897-1977
(OVER-ALL) 1857-1977

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TABLE 1C

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	.0	6.5	13.0	6.7	.0	.0	.0	.0	28.3	71.7	46
06609	.0	.0	.0	10.5	18.4	2.6	.0	.0	.0	.0	31.6	68.4	38
12615	2.3	.0	2.3	6.8	15.9	2.3	.0	.0	2.3	.0	31.8	68.2	44
18621	.0	.0	2.3	9.3	16.3	9.3	.0	.0	.0	.0	37.2	62.8	43
TOT	1	0	2	14	27	10	0	0	1	0	55	116	171
PCT	.6	.0	1.2	8.2	15.8	5.8	.0	.0	.6	.0	32.2	67.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	.5	.0	2.1	35.4	62.1	195
06609	.0	.0	.0	4.9	4.9	90.2	41
12615	.0	.0	.0	1.4	53.5	45.1	142
18621	.0	.0	.0	.0	4.3	95.7	47
TOT	0	1	0	8	149	267	425
PCT	.0	.2	.0	1.9	35.1	62.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	.0	9.7	32.3	58.1	31
06609	.0	.0	13.9	19.4	66.7	36
12615	2.9	5.7	14.3	25.7	60.0	35
18621	.0	2.4	12.2	26.8	61.0	41
TOT	1	3	18	37	88	143
PCT	.7	2.1	12.6	25.9	61.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.5	1.6	.5	.3	.8	14	3.6
80/84	.0	.0	.0	1.0	3.4	8.8	4.9	2.9	81	21.0
75/79	.0	.0	.8	1.0	5.5	21.8	18.2	7.5	211	54.8
70/74	.0	.0	.0	1.0	3.1	6.8	5.7	3.9	79	20.5
TOTAL	0	0	3	14	52	146	112	58	385	100.0
PCT	.0	.0	.8	3.6	13.5	37.9	29.1	15.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	1.1	.5	.8	.3	.0	.3	.0	.0	.0
1.8	2.5	5.8	3.6	2.1	1.1	1.7	1.9	.0	.5
.8	6.0	14.8	15.9	9.0	2.3	1.0	1.6	.0	3.4
.3	.3	3.1	10.3	4.0	1.1	.5	.0	.0	1.0
3.6	9.9	24.2	30.5	15.4	4.5	3.4	3.6	.0	4.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	88	87	85	79	73	71	70	79.1	291
06609	84	83	82	76	73	72	72	76.8	48
12615	87	80	80	76	72	68	67	75.6	193
18621	86	85	80	77	73	72	72	76.7	55
TOT	88	87	84	77	72	70	67	77.5	587

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	6.8	14.2	40.3	21.0	17.6	78	176
06609	.0	2.2	21.7	32.6	34.8	8.7	77	46
12615	.0	3.3	10.7	33.1	37.2	15.7	80	121
18621	.0	3.8	9.6	42.3	36.5	7.7	78	52
TOT	0	19	53	148	117	58	78	395

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OR FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.3	.3	2	.0	.7
7/8	.0	.0	.0	.0	.3	.7	3	.0	1.0
6	.0	.0	.3	.7	1.0	.7	8	.0	2.6
5	.0	.0	.0	.3	.7	.0	3	.0	1.0
4	.0	.0	.7	1.3	2.0	.3	13	.0	4.3
3	.0	.0	.3	1.7	1.7	.0	11	.0	3.6
2	.0	.0	.7	2.6	1.3	.0	14	.3	4.3
1	.0	.0	.0	4.3	1.7	.0	18	.0	6.0
0	.0	.0	3.6	7.6	.3	.0	35	.0	11.6
-1	.0	.0	3.6	8.9	.3	.0	39	.7	12.3
-2	.0	.0	5.3	5.6	.0	.0	33	.7	10.3
-3	.0	.0	13.6	3.6	.0	.0	52	.0	17.2
-4	.0	1.7	5.0	.7	.0	.0	22	.0	7.3
-5	.0	.7	6.3	1.7	.0	.0	26	.0	8.6
-6	.3	1.0	2.6	.3	.0	.0	13	.0	4.3
-7/-8	.0	1.7	1.0	.0	.0	.0	8	.0	2.6
-9/-10	.0	.3	.3	.0	.0	.0	2	.0	.7
TOTAL	1	16	131	119	29	6	302	5	297
PCT	.3	5.3	43.4	39.4	9.6	2.0	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.6	.0	.0	.0	1.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.7	.0	.0	.0	.0	3.7
3-4	.0	1.3	1.9	.0	.0	.0	3.2
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	3.0	.0	.0	.0	8.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.9	3.9	3.2	.0	.0	.0	8.0
3-4	.0	6.9	3.9	.0	.0	.0	10.8
5-6	.0	.6	4.7	.6	.0	.0	6.0
7	.0	.0	2.6	.6	.0	.0	3.2
8-9	.0	.0	.9	.6	.0	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	11.4	15.3	1.9	.0	.0	29.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	3.2	2.2	.0	.0	.0	5.4
3-4	.0	6.0	11.0	.0	.0	.0	17.0
5-6	.9	1.1	9.3	2.8	.0	.0	14.0
7	.0	.0	2.4	1.9	.0	.0	4.3
8-9	.0	.0	.0	2.8	.0	.0	2.8
10-11	.0	.0	.9	.9	.0	.0	1.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	11.2	25.6	8.4	.0	.0	46.1

PERIOD: (OVER-ALL) 1963-1977

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	3.0	.6	.0	.0	.0	3.7
3-4	.0	2.2	2.2	.0	.0	.0	4.3
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.0	3.4	.0	.0	.0	9.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.9	.0	.0	.0	.0	.0	.9
3-4	.0	.9	.2	.0	.0	.0	1.1
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	.9	1.9	.0	.0	.0	3.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.0	.0	.0	.0	.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.9	.0	.0	.0	.0	.9	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.9	.0	.0	.0	.0	.9	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	1.7	.0	.0	.0	.0	1.7	
1-2	1.7	15.5	6.0	.0	.0	.0	23.3	
3-4	.0	18.1	19.8	.0	.0	.0	37.9	
5-6	.9	1.7	16.4	3.4	.0	.0	22.4	
7	.0	.0	6.0	2.6	.0	.0	8.6	
8-9	.0	.0	.9	3.4	.0	.0	4.3	
10-11	.0	.0	.9	.9	.0	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.6	37.1	50.0	10.3	.0	.0	100.0	116

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	6.7	17.9	7.5	6.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	4
6-7	.0	.7	7.5	9.0	4.5	4.5	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	6
8-9	.0	.0	.7	2.2	6.0	2.2	1.5	.7	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	21	9
10-11	.0	.0	1.5	.7	1.5	.7	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
12-13	.0	.0	.7	1.5	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
>13	.0	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	.0	.0	1.5	1.5	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
TOTAL	0	10	40	30	27	14	3	4	4	1	1	0	0	0	0	0	0	0	0	134	6
PCT	.0	7.5	29.9	22.4	20.1	10.4	2.2	3.0	3.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1874-1977

AREA 0013 FIJI ISLANDS
17.5S 88.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	9.4	1.3	.0	.0	.0	.0	10.7	2.7	2.7	1.3	.0	.0		.0	82.6
E	.0	4.8	.4	.0	.0	.0	.0	5.3	.9	1.8	1.8	.0	.9		.0	89.5
SE	.0	5.3	.1	.0	.0	.0	.0	5.4	1.1	.0	.3	.0	.0		.0	93.2
S	6.0	1.1	3.8	.0	.0	.0	.0	10.9	.0	.0	1.1	.0	.0		.0	88.0
SW	2.4	.0	.0	.0	.0	.0	.0	2.4	.0	.0	4.9	.0	.0		.0	92.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	11.4	.0	.0	.0	.0	.0	11.4	.0	.0	.0	.0	.0	11.4	.0	77.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.7	4.7	.7	.0	.0	.0	.0	6.1	.9	.7	.9	.0	.5		.0	90.9
TOT OBS:	428															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.7	5.6	.0	.0	.0	.0	.0	7.3	1.1	.0	1.1	.0	1.1		.0	89.3
06&09	.0	4.3	4.3	.0	.0	.0	.0	8.7	2.2	.0	.0	.0	.0		.0	89.1
12&15	.0	5.1	.6	.0	.0	.0	.0	5.6	.6	1.7	1.1	.0	.0		.0	91.0
18&21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.7	4.8	.7	.0	.0	.0	.0	6.2	.9	.7	.9	.0	.5		.0	90.8
TOT OBS:	437															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	1.7	.1	.0	.0	.0		2.9	4.8	2.9	.0	2.9	.0	2.4	.0	5.1	.0
NE	1.5	5.3	2.2	.0	.0	.0		9.0	7.9	8.9	.0	11.8	.0	8.0	.0	12.2	.0
E	1.3	15.0	9.0	.9	.0	.0		26.1	10.3	24.8	.0	21.6	.0	26.9	.0	39.1	.0
SE	7.2	17.7	14.0	2.6	.2	.0		41.7	10.4	42.9	.0	49.5	75.0	39.1	.0	34.6	.0
S	1.4	5.9	3.9	.2	.0	.0		11.4	9.3	10.9	.0	6.9	25.0	13.4	.0	9.0	.0
SW	.5	1.4	.5	.0	.0	.0		2.4	7.8	2.8	.0	4.4	.0	1.9	.0	.0	.0
W	.2	1.1	.2	.2	.0	.0		1.7	9.0	1.1	.0	2.0	.0	2.6	.0	.0	.0
NW	.4	1.1	.6	.0	.0	.0		2.1	7.0	3.4	.0	1.0	.0	1.2	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	2.3	.0	.0	.0	4.7	.0	.0	.0
TOT OBS	94	283	175	22	1	0	575		9.4	266	0	91	4	215	0	39	0
TOT PCT	16.3	49.2	30.4	3.8	.2	.0		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	.4	.0	.0	.0		2.9	4.8	2.9	2.7	2.4	5.1
NE	4.1	4.4	.4	.0	.0		9.0	7.9	8.9	10.9	8.0	12.2
E	6.6	16.1	3.3	.2	.0		26.1	10.3	24.8	20.0	26.9	39.1
SE	14.1	19.7	7.1	.7	.0		41.7	10.4	42.9	31.4	39.1	34.6
S	3.4	7.3	.6	.1	.0		11.4	9.3	10.9	8.2	13.4	9.0
SW	1.0	1.3	.1	.0	.0		2.4	7.8	2.8	4.1	1.9	.0
W	1.0	.5	.0	.2	.0		1.7	9.0	1.1	1.8	2.6	.0
NW	1.5	.4	.2	.0	.0		2.1	7.0	3.4	.9	1.2	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.8						2.8	.0	2.3	.0	4.7	.0
TOT OBS	212	289	67	7	0	575		9.4	266	55	215	39
TOT PCT	36.9	50.3	11.7	1.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1895-1971
(OVER-ALL) 1874-1971

AREA 0013 FIJI ISLANDS
17.5S 88.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&09	2.3	16.5	48.5	30.5	2.3	.0	.0	8.7	100.0	266
06&09	.0	5.5	47.3	36.4	9.1	1.8	.0	12.2	100.0	55
12&15	4.7	14.0	48.8	27.9	4.7	.0	.0	9.3	100.0	215
18&21	.0	2.6	59.0	35.9	2.6	.0	.0	10.9	100.0	39
TOT	16	78	283	175	22	1	0	9.4		575
PCT	2.8	13.6	49.2	30.4	3.8	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	1.5	.6	.0		3.8
NE	3.1	1.7	3.2	2.0		4.2
E	6.0	9.0	13.6	3.1		4.6
SE	14.2	8.4	12.9	4.8		4.2
S	.4	4.9	1.5	3.5		5.1
SW	1.1	.1	.7	.7		5.0
W	.6	.6	.0	.0		3.0
NW	.6	.1	.0	.6		4.0
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.0	.0		.0
TOT OBS	47	47	58	66	178	4.4
TOT PCT	26.4	26.4	32.6	14.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	
.0	.0	.0	1.1	.8	.7	.0	.0	.0	.0	7.3	
.0	.0	.0	.6	4.5	3.8	.0	.0	.0	.0	22.9	
.0	.0	.6	1.7	7.9	3.4	.0	.0	.0	.0	26.8	
.0	.0	.0	1.5	.8	.0	2.1	.0	.0	.0	5.9	
.0	.0	.0	.1	.0	1.1	.1	.0	.0	.0	1.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
0	0	1	10	25	16	4	0	0	0	122	178
.0	.0	.6	5.6	14.0	9.0	2.2	.0	.0	.0	68.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
* OR >2000	8.9	11.1	11.7	11.7	11.7	11.7	11.7	11.7
* OR >1000	20.6	24.4	25.6	25.6	25.6	25.6	25.6	25.6
* OR >600	23.9	30.0	31.1	31.1	31.1	31.1	31.1	31.1
* OR >300	24.4	30.6	31.7	31.7	31.7	31.7	31.7	31.7
* OR >150	24.4	30.6	31.7	31.7	31.7	31.7	31.7	31.7
* OR > 0	24.4	30.6	31.7	31.7	31.7	31.7	31.7	31.7
TOTAL	44	55	57	57	57	57	57	57

TOTAL NUMBER OF OBS: 180

PCT FREQ NH <5/8: 68.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.3	12.4	19.6	19.1	12.4	7.2	8.6	6.7	10.5 .0	209

AUGUST

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1874-1977

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17.5S 88.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.2	
2<5	NO PCP	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.9	
	TOT %	.0	.0	.0	.5	.6	.0	.0	.0	.0	.0	1.2	
	PCP	.0	.5	.6	1.6	1.0	.1	.0	.2	.0	.0	4.0	
5<10	NO PCP	1.6	2.2	7.3	15.4	4.1	.9	1.1	1.5	.0	2.1	36.2	
	TOT %	1.6	2.6	7.9	17.0	5.1	1.0	1.1	1.8	.0	2.1	40.2	
	PCP	.0	.5	.8	.6	.0	.0	.0	.0	.0	.0	1.9	
10+	NO PCP	1.1	5.5	17.8	24.0	4.9	1.4	.7	.3	.0	.9	56.5	
	TOT %	1.1	6.0	18.6	24.6	4.9	1.4	.7	.3	.0	.9	58.4	
	TOT OBS												428
	TOT PCT	2.7	8.7	26.6	42.1	10.7	2.4	1.8	2.0	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.0	.0	.5	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.3	.2	.0	.0	.0	.0		.5	
	TOT %	.0	.0	.0	.5	.6	.0	.0	.0	.0	.0	1.2	
	0-3	1.0	1.0	1.3	5.2	.9	.2	.2	.2	.0	2.1	12.3	
5<10	4-10	.6	1.5	5.3	7.7	2.7	.6	.8	1.3	.0		20.4	
	11-21	.0	.1	1.3	3.1	1.3	.2	.0	.2	.0		6.3	
	22+	.0	.0	.1	.9	.1	.0	.0	.0	.0		1.2	
	TOT %	1.6	2.6	8.1	16.9	5.1	1.0	1.0	1.7	.0	2.1	40.1	
	0-3	.2	.1	.4	2.3	.6	.1	.0	.0	.0	.9	4.6	
10+	4-10	.6	3.4	9.4	9.2	2.3	.9	.5	.0	.0		26.2	
	11-21	.2	2.4	7.6	11.2	2.0	.4	.2	.3	.0		24.4	
	22+	.0	.0	1.0	2.2	.0	.0	.0	.0	.0		3.2	
	TOT %	1.0	5.9	18.4	24.9	4.9	1.4	.7	.3	.0	.9	58.5	
	TOT OBS												431
	TOT PCT	2.7	8.6	26.6	42.3	10.6	2.4	1.7	2.0	.0	3.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1874-1977

AREA 0013 FIJI ISLANDS
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	1.7	3.4	12.1	6.9	3.4	.0	.0	.0	27.6	72.4	58
06&09	.0	.0	.0	10.6	8.5	14.9	.0	.0	.0	.0	34.0	66.0	47
12&15	.0	.0	.0	1.8	12.3	10.5	3.5	.0	.0	.0	28.1	71.9	57
18&21	.0	.0	.0	5.7	20.0	.0	.0	.0	.0	.0	25.7	74.3	35
TOT	0	0	1	10	25	17	4	0	0	0	57	140	197
PCT	.0	.0	.5	5.1	12.7	8.6	2.0	.0	.0	.0	28.9	71.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	1.1	46.4	52.5	179
06&09	.0	.0	.0	2.2	10.9	87.0	46
12&15	.0	.0	.0	1.1	50.6	47.8	178
18&21	.0	.0	.0	.0	2.7	97.3	37
TOT	0	1	0	5	179	255	440
PCT	.0	.2	.0	1.1	40.7	58.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.1	8.5	25.5	66.0	47
06&09	.0	.0	13.3	22.2	64.4	45
12&15	.0	.0	1.9	28.3	69.8	53
18&21	.0	.0	5.7	20.0	74.3	35
TOT	0	1	13	44	123	180
PCT	.0	.6	7.2	24.4	68.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.3	.0	.3	.0	2	.7
85/89	.0	.0	.0	.0	.0	.7	.0	.7	4	1.3
80/84	.0	.0	.0	.0	.3	4.7	3.0	3.3	34	11.3
75/79	.0	.0	.0	1.7	3.3	19.9	23.9	17.3	199	66.1
70/74	.0	.0	.0	.7	4.3	7.3	5.0	2.7	60	19.9
65/69	.0	.0	.0	.0	.0	.0	.7	.0	2	.7
TOTAL	0	0	0	7	25	98	99	72	301	100.0
PCT	.0	.0	.0	2.3	8.3	32.6	32.9	23.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
.0	.2	.4	.0	.0	.0	.0	.0	.0	.7
.2	.7	4.6	3.8	1.3	.2	.0	.1	.0	.3
1.7	7.0	23.2	25.2	5.6	1.3	1.0	.4	.0	.7
.0	.7	3.3	11.2	3.4	1.0	.0	.3	.0	.0
.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
1.9	8.6	31.5	40.6	11.0	2.6	1.0	.8	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	87	84	78	72	71	69	78.2	267
06&09	81	80	80	77	73	70	70	76.5	53
12&15	82	80	79	75	71	69	68	75.0	214
18&21	79	78	78	76	72	70	70	75.6	40
TOT	91	85	82	76	71	70	68	76.6	574

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.8	6.4	35.5	29.1	27.3	82	110
06&09	.0	.0	10.4	25.0	45.8	18.8	82	48
12&15	.0	2.7	7.1	35.7	32.1	22.3	81	112
18&21	.0	5.3	13.2	21.1	34.2	26.3	81	38
TOT	0	7	25	99	103	74	82	308

AUGUST

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1874-1977

AREA 0013 FIJI ISLANDS
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
9/10	.0	.0	.0	.3	.0	.0	.0	1	.0	.3
7/8	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
6	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.0	.6	.0	.3	.0	3	.0	.9
4	.0	.0	.3	.3	1.9	.0	.0	8	.0	2.5
3	.0	.0	.0	1.3	.9	.0	.0	7	.0	2.2
2	.0	.3	.3	1.6	.6	.0	.0	9	.3	2.5
1	.0	.0	.0	4.4	1.9	.0	.0	20	.0	6.3
0	.0	.0	3.5	10.1	.3	.0	.0	44	.3	13.6
-1	.0	.0	10.1	10.4	.0	.0	.0	65	.3	20.3
-2	.0	.9	8.9	4.7	.3	.0	.0	47	.0	14.9
-3	.0	4.1	7.3	1.9	.0	.0	.0	42	.3	13.0
-4	.0	2.2	5.7	1.3	.0	.0	.0	29	.0	9.2
-5	.0	.9	3.5	1.6	.0	.0	.0	19	.0	6.0
-6	.0	.6	1.6	.0	.0	.0	.0	7	.0	2.2
-7/-8	.3	.9	1.3	.3	.0	.0	.0	9	.0	2.8
-9/-10	.0	.6	.0	.0	.0	.0	.0	2	.0	.6
-14/-16	.0	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1		134		19		1		4	312
		35		123		3		316		
PCT	.3	11.1	42.4	38.9	6.0	.9	.3	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.7	.5	.0	.0	.0	2.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8
1-2	.0	2.3	1.4	.0	.0	.0	3.7
3-4	.0	1.4	3.2	.0	.0	.0	4.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.6	.0	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.9	5.2	.0	.0	.0	10.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.2	.0	.0	.0	.0	1.7
1-2	.0	10.0	3.7	.0	.0	.0	13.7
3-4	.0	3.5	3.2	.6	.0	.0	7.4
5-6	.0	1.1	6.3	1.1	.0	.0	8.5
7	.0	.0	.6	.6	.0	.0	1.2
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	15.9	13.9	2.8	.0	.0	33.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	1.2	.0	.0	.0	.0	2.5
1-2	.6	8.0	2.3	.0	.0	.0	11.0
3-4	.0	2.2	7.1	.6	.0	.0	9.9
5-6	.0	.8	6.6	.9	.0	.0	8.3
7	.0	.6	1.2	1.2	.0	.0	3.1
8-9	.6	.0	.0	2.6	.0	.0	3.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.6	.0	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	12.8	17.9	5.4	.0	.0	38.6

PERIOD: (OVER-ALL) 1963-1977 AUGUST AREA 0013 FIJI ISLANDS

TABLE 18 (CONT) 17.5S 88.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
1-2	.6	2.0	2.9	.0	.0	.0	5.6	.0	1.2	.2	.0	.0	.0	1.4
3-4	.0	1.5	.6	.0	.0	.0	2.2	.0	.6	.6	.0	.0	.0	1.2
5-6	.0	.0	1.1	.5	.0	.0	1.5	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.2	4.6	.5	.0	.0	9.9	.0	1.9	.9	.0	.0	.0	2.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	1.4	.0	.0	.0	1.4	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.5	3.7	.0	.0	.0	.0	6.1	
1-2	1.8	28.4	10.4	.0	.0	.0	38.7	
3-4	.0	9.2	16.0	1.2	.0	.0	26.4	
5-6	.0	1.8	14.7	2.5	.0	.0	19.0	
7	.0	1.2	1.8	1.8	.0	.0	4.9	
8-9	.6	.0	.0	3.1	.0	.0	3.7	
10-11	.0	.0	.6	.0	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.6	.0	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	42.3	44.2	8.6	.0	.0	100.0	163

PERIOD: (OVER-ALL) 1956-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	6.4	14.0	9.9	2.3	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	4
6-7	.0	.6	7.0	6.4	4.1	.6	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	34	5
8-9	.0	.0	4.7	4.1	4.7	2.9	1.2	1.2	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
10-11	.0	.0	.0	.6	2.9	1.2	.6	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	9
12-13	.0	.0	1.2	.6	.0	.6	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
>13	.0	.0	.0	.6	1.2	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	4.7	.0	1.2	.6	.6	1.2	.6	.0	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
TOTAL	11	12	48	39	27	14	7	2	6	3	1	1	0	0	0	0	0	0	0	171	5
PCT	6.4	7.0	28.1	22.8	15.8	8.2	4.1	1.2	3.5	1.8	.6	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1874-1977

AREA 0013 FIJI ISLANDS
17.5S 28.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	12.5	12.5	.0	.0	.0	.0	.0	25.0	12.5	.0	.0	.0	.0		.0	62.5
NE	3.5	2.6	.0	.0	.0	.0	.0	6.1	3.5	.0	3.5	.0	3.5		.0	83.3
E	2.1	5.7	.0	.0	.0	.0	.0	7.9	2.1	.9	.6	.0	.9		.0	87.6
SE	1.9	5.4	2.5	.0	.0	.0	.0	9.8	1.0	.2	2.9	.0	.2		.0	85.9
S	7.5	1.9	3.8	.0	.0	.0	.0	13.2	7.5	.0	.0	.0	.0		.0	79.2
SW	.0	4.4	8.9	.0	.0	.0	.0	13.3	8.9	.0	.0	.0	.0		.0	77.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0		.0	83.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	3.1	4.8	1.7	.0	.0	.0	.0	9.5	2.7	.3	1.7	.0	.7		.0	85.0
TOT OBS:	294															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.9	3.0	.0	.0	.0	.0	.0	8.9	2.0	.0	2.0	.0	1.0		.0	86.1
06&09	4.5	.0	2.3	.0	.0	.0	.0	6.8	4.5	2.3	.0	.0	.0		.0	86.4
12&15	2.6	7.7	1.7	.0	.0	.0	.0	12.0	3.4	.0	2.6	.0	.0		.0	82.1
18&21	.0	5.3	5.3	.0	.0	.0	.0	10.5	.0	.0	.0	.0	2.6		.0	86.8
TOT PCT	3.7	4.7	1.7	.0	.0	.0	.0	10.0	2.7	.3	1.7	.0	.7		.0	84.7
TOT OBS:	300															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	2.2	.0	.0	.0	.0		2.7	5.5	1.5	.0	5.3	.0	2.6	.0	3.7	.0
NE	.6	5.8	2.7	.1	.0	.0		9.1	9.5	11.1	.0	16.8	.0	5.4	.0	8.0	.0
E	1.0	12.5	14.4	1.3	.0	.0		29.2	11.9	29.2	50.0	20.2	30.0	29.8	.0	36.7	.0
SE	2.8	14.2	19.7	4.2	.5	.0		41.3	13.0	39.2	50.0	44.2	70.0	43.3	.0	34.6	.0
S	1.3	4.4	3.7	.0	.0	.0		9.3	9.6	10.8	.0	8.7	.0	10.9	.0	2.1	.0
SW	.3	1.8	.4	.5	.0	.0		3.0	11.2	2.6	.0	3.4	.0	3.0	.0	4.8	.0
W	.4	1.3	.2	.0	.0	.0		2.0	7.7	3.3	.0	1.4	.0	.0	.0	5.3	.0
NW	.6	.8	.3	.0	.0	.0		1.6	6.0	2.4	.0	.0	.0	1.2	.0	2.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	.0	.0	.0	.0	3.9	.0	2.1	.0
TOT OBS	36	170	163	24	2	0	395		11.4	137	2	52	5	152	0	47	0
TOT PCT	9.1	43.0	41.3	6.1	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	.9	.0	.0	.0		2.7	5.5	1.4	4.8	2.6	3.7
NE	2.9	4.8	1.4	.0	.0		9.1	9.5	11.0	15.4	5.4	8.0
E	5.1	17.1	6.6	.4	.0		29.2	11.9	29.5	21.1	29.8	36.7
SE	6.8	22.9	10.3	1.3	.0		41.3	13.0	39.4	46.5	43.3	34.6
S	3.2	4.9	1.3	.0	.0		9.3	9.6	10.6	7.9	10.9	2.1
SW	.6	1.6	.8	.0	.0		3.0	11.2	2.5	3.1	3.0	4.8
W	.7	1.1	.2	.0	.0		2.0	7.7	3.2	1.3	.0	5.3
NW	1.3	.3	.0	.0	.0		1.6	6.0	2.3	.0	1.2	2.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	.0	.0	3.9	2.1
TOT OBS	95	212	81	7	0	395		11.4	139	57	152	47
TOT PCT	24.1	53.7	20.5	1.8	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1874-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	14.4	43.9	37.4	3.6	.7	.0	10.5	100.0	139
06&09	.0	3.5	38.6	52.6	3.5	1.8	.0	12.5	100.0	57
12&15	3.9	3.9	42.8	42.8	6.6	.0	.0	11.1	100.0	152
18&21	4.1	2.1	46.8	34.0	14.9	.0	.0	13.3	100.0	47
TOT	7	29	170	163	24	2	0	11.4		395
PCT	1.8	7.3	43.0	41.3	6.1	.5	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.6	1.2	.6		4.1
NE	4.1	1.3	3.4	1.9		3.9
E	7.0	5.9	12.7	2.7		4.5
SE	8.1	8.9	13.2	10.5		5.1
S	.4	1.6	2.7	2.5		6.0
SW	.3	.6	2.7	1.3		5.9
W	1.0	.4	.9	.0		3.6
NW	.6	.1	.6	.0		4.4
VAR	.0	.0	.0	.0		.0
CALM	.6	.0	.0	.0		1.0
TOT OBS	40	33	63	33	169	4.8
TOT PCT	23.7	19.5	37.3	19.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	2.7	
NE	.0	.1	.6	.0	.7	.0	.0	.0	.0	.0	9.3	
E	.0	.4	1.2	1.6	3.8	2.2	.6	.0	.0	.0	18.3	
SE	.0	.0	1.2	4.9	5.2	6.4	.6	.0	.0	.0	22.5	
S	.0	.0	.6	.0	.9	3.1	.0	.0	.0	.0	2.7	
SW	.0	.0	.0	1.3	1.2	1.3	.0	.0	.0	.0	1.0	
W	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	1.9	
NW	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
TOT OBS	0	1	6	15	22	22	2	0	0	0	101	169
TOT PCT	.0	.6	3.6	8.9	13.0	13.0	1.2	.0	.0	.0	59.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >2000	11.0	13.4	14.0	14.0	14.0	14.0	14.0	14.0
* OR >1000	21.5	26.2	27.3	27.3	27.3	27.3	27.3	27.3
* OR >600	27.3	34.3	36.6	36.6	36.6	36.6	36.6	36.6
* OR >300	29.1	37.8	40.1	40.1	40.1	40.1	40.1	40.1
* OR >150	29.7	38.4	40.7	40.7	40.7	40.7	40.7	40.7
* OR > 0	29.7	38.4	40.7	40.7	40.7	40.7	40.7	40.7
TOTAL	51	66	70	70	70	70	70	70

TOTAL NUMBER OF OBS: 172 PCT FREQ NH <5/8: 59.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.4	14.7	15.2	13.0	12.0	11.4	10.9	6.0	11.4	.0	184

SEPTEMBER

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1874-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
	PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	NO PCP	.0	.0	.0	.7	.0	.0	.0	.3	.0	.0	1.0	
	TOT %	.3	.0	.0	.7	.0	.0	.0	.3	.0	.0	1.4	
	PCP	.0	.3	1.2	3.6	.5	.5	.0	.0	.0	.0	6.1	
5<10	NO PCP	.0	2.2	7.2	9.9	2.1	.4	.0	.3	.0	1.4	23.5	
	TOT %	.0	2.6	8.4	13.5	2.6	.9	.0	.3	.0	1.4	29.7	
	PCP	.3	.3	1.0	.4	.0	.0	.0	.0	.0	.0	2.0	
10+	NO PCP	1.8	6.8	18.9	26.5	5.7	2.9	2.0	1.0	.0	.3	65.9	
	TOT %	2.1	7.1	19.9	26.9	5.7	2.9	2.0	1.0	.0	.3	67.9	
	TOT OBS												293
	TOT PCT	2.5	9.6	28.2	41.0	9.0	3.8	2.0	2.0	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.7	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.3	.0	.0	.0	.3	.0		.7	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	TOT %	.3	.0	.0	.7	.0	.0	.0	.3	.0	.0	1.4	
	0-3	.0	.3	.0	.7	.0	.0	.0	.0	.0	1.4	2.4	
5<10	4-10	.0	1.4	3.9	4.6	1.6	.8	.0	.3	.0		12.6	
	11-21	.0	.9	4.4	8.2	1.0	.2	.0	.0	.0		14.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	2.6	8.3	13.4	2.6	.9	.0	.3	.0	1.4	29.6	
	0-3	.6	.1	1.1	2.0	1.0	.3	.6	.4	.0	.3	6.5	
10+	4-10	1.5	4.7	8.8	9.9	2.0	1.6	1.1	.6	.0		30.3	
	11-21	.0	2.2	8.8	11.3	2.6	.3	.3	.0	.0		25.5	
	22+	.0	.1	1.3	3.7	.0	.7	.0	.0	.0		5.8	
	TOT %	2.1	7.1	20.0	27.0	5.7	2.9	2.0	1.0	.0	.3	68.0	
	TOT OBS												294
	TOT PCT	2.5	9.6	28.3	41.1	9.0	3.8	2.0	2.0	.0	1.7	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1874-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.4	7.1	14.3	9.5	.0	.0	.0	.0	33.3	66.7	42
06&09	.0	.0	.0	9.1	15.9	15.9	.0	.0	.0	.0	40.9	59.1	44
12&15	.0	1.8	1.8	5.3	10.5	15.8	3.5	.0	.0	.0	38.6	61.4	57
18&21	.0	.0	10.5	15.8	10.5	5.3	.0	.0	.0	.0	42.1	57.9	38
TOT	0	1	6	16	23	22	2	0	0	0	70	111	181
PCT	.0	.6	3.3	8.8	12.7	12.2	1.1	.0	.0	.0	38.7	61.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	2.0	1.0	1.0	29.7	66.3	101
06&09	.0	.0	.0	4.7	14.0	81.4	43
12&15	.0	.0	.0	1.7	39.0	59.3	118
18&21	.0	.0	.0	.0	18.4	81.6	38
TOT	0	2	1	5	89	203	300
PCT	.0	.7	.3	1.7	29.7	67.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.6	10.5	26.3	63.2	38
06&09	.0	.0	11.6	30.2	58.1	43
12&15	.0	3.8	11.3	30.2	58.5	53
18&21	.0	10.5	26.3	15.8	57.9	38
TOT	0	7	25	45	102	172
PCT	.0	4.1	14.5	26.2	59.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.4	.0	.4	2	.7
80/84	.0	.0	.4	.0	1.1	5.1	6.2	1.5	39	14.2
75/79	.0	.0	.4	.7	4.7	22.3	22.3	12.4	172	62.8
70/74	.0	.0	.0	1.1	3.3	4.4	7.3	3.3	53	19.3
65/69	.0	.0	.0	.0	.4	.0	.0	.4	2	.7
60/64	.0	.0	.0	.0	.7	.0	1.5	.0	6	2.2
TOTAL	0	0	2	5	28	88	102	49	274	100.0
PCT	.0	.0	.7	1.8	10.2	32.1	37.2	17.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.4	.3	.1	.0	.0	.0	.0	.0	.0
1.5	1.6	3.8	4.4	1.6	.1	.4	1.0	.0	.0
2.4	6.4	20.6	22.7	4.5	2.7	2.2	.9	.0	.4
.0	.5	4.4	11.5	2.3	.7	.0	.0	.0	.0
.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
.0	.0	.5	1.7	.0	.0	.0	.0	.0	.0
3.8	8.8	29.6	41.1	8.3	3.6	2.6	1.9	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	85	84	78	72	63	63	77.6	136
06&09	82	81	81	78	73	67	67	77.3	55
12&15	82	81	79	76	72	64	64	75.7	153
18&21	79	78	78	77	70	61	61	75.6	47
TOT	89	85	82	77	72	63	61	76.6	391

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.4	14.1	37.6	27.1	18.8	78	85
06&09	.0	4.3	8.5	36.2	38.3	12.8	80	47
12&15	.0	1.9	7.8	27.2	41.7	21.4	81	103
18&21	.0	4.5	9.1	27.3	43.2	15.9	81	44
TOT	0	8	28	89	103	51	80	279

SEPTEMBER

PERIOD: (PRIMARY) 1931-1977
(OVER-ALL) 1874-1977

AREA 0013 FIJI ISLANDS
17.5S 28.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.4	.4	.4	.0	3	.0	1.1
5	.0	.0	.0	.0	.4	.8	.0	.0	3	.0	1.1
4	.0	.0	.0	.0	1.1	.4	.0	.0	4	.0	1.5
3	.0	.0	.0	.0	.8	.8	.0	.4	5	.0	1.9
2	.0	.0	.0	.4	1.5	1.1	.0	.0	8	.0	3.1
1	.0	.0	.0	1.1	4.2	1.1	.0	.0	17	.0	6.5
0	.0	.0	.0	4.2	10.7	1.5	.0	.0	43	.4	16.1
-1	.0	.0	.0	7.3	10.3	.4	.0	.0	47	.4	17.6
-2	.0	.0	1.1	6.1	3.1	.4	.0	.0	28	.8	10.0
-3	.0	.0	1.1	6.9	5.7	.4	.4	.0	38	.4	14.2
-4	.0	.0	1.1	3.8	3.1	.0	.0	.0	21	.0	8.0
-5	.0	.4	1.1	4.2	2.7	.0	.4	.0	23	.0	8.8
-6	.4	.0	.8	2.7	.4	.0	.0	.0	11	.0	4.2
-7/-8	.8	.4	.4	.4	1.1	.0	.0	.0	8	.0	3.1
-9/-10	.0	.4	.4	.0	.0	.0	.0	.0	2	.0	.8
TOTAL	3	3	16	97	119	19	3	1	261	5	256
PCT	1.1	1.1	6.1	37.2	45.6	7.3	1.1	.4	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1964-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.2	2.6	.0	.0	.0	.0	3.7
3-4	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.2	.0	.0	.0	.0	4.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.2	4.1	1.4	.0	.0	.0	5.6
3-4	.0	1.7	.0	.0	.0	.0	1.7
5-6	.0	.7	1.4	.0	.0	.0	2.0
7	.0	.0	.9	.2	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.1	3.6	.2	.0	.0	11.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.0	.0	.0	.0	2.0
1-2	.0	3.4	.5	.0	.0	.0	3.9
3-4	.0	5.8	3.6	.0	.0	.0	9.4
5-6	.0	1.4	4.4	.0	.0	.0	5.8
7	.0	.0	5.1	1.0	.0	.0	6.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	11.9	13.6	1.7	.0	.0	27.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2
1-2	.7	4.4	2.2	.0	.0	.0	7.3
3-4	.0	4.1	7.0	.7	.0	.0	11.7
5-6	.0	.7	7.3	.7	.0	.0	8.7
7	.0	1.4	2.9	.9	.0	.0	5.1
8-9	.0	.0	1.4	.7	.0	.0	2.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	12.8	20.7	3.6	.0	.0	37.8

PERIOD: (OVER-ALL) 1963-1977

SEPTEMBER

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.7	.0	.0	.0	1.2
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	1.4	1.7	.0	.0	.0	3.1
5-6	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	4.9	.0	.0	.0	8.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	1.9	.2	.0	.0	.0	2.0
3-4	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	.0	.7	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	.2	1.4	.0	.0	5.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	1.0	.5	.0	.0	.0	1.5
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	.5	.0	.0	.0	2.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.9	.0	.0	.0	.0	.9	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.7	.0	.0	.0	.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.9	.7	.0	.0	.0	1.5	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.0	6.8	.7	.0	.0	.0	9.5	
1-2	2.0	14.9	4.7	.0	.0	.0	25.7	
3-4	.0	15.5	12.2	.7	.0	.0	28.4	
5-6	.0	2.7	14.9	1.4	.0	.0	18.9	
7	.0	1.4	10.1	2.0	.0	.0	13.5	
8-9	.0	.0	1.4	1.4	.0	.0	2.7	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	1.4	.0	.0	1.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	45.3	43.9	6.8	.0	.0	100.0	148

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	8.8	14.4	9.4	5.6	1.9	.6	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	4
6-7	.0	1.9	8.1	8.1	8.1	.6	1.9	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	6
8-9	.0	.0	2.5	.6	2.5	2.5	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
10-11	.0	1.9	.0	.0	2.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
12-13	.0	.0	1.9	.0	1.3	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	10
>13	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	1.3	.6	.0	.6	1.9	.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
TOTAL	3	21	43	31	36	10	7	2	3	4	0	0	0	0	0	0	0	0	0	160	5
PCT	1.9	13.1	26.9	19.4	22.5	6.3	4.4	1.3	1.9	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1897-1977
(OVER-ALL) 1874-1977

AREA 0013 FIJI ISLANDS
17.3S 53.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	21.1	.0	.0	.0	.0	.0	.0	21.1	.0	.0	.0	.0	.0		.0	78.9
NE	2.9	2.9	2.2	.0	.0	.0	.0	8.1	2.9	.7	.0	.0	.0		.0	88.2
E	2.7	0.7	2.0	.0	.0	.0	.0	11.4	4.5	2.5	.4	.0	1.8		.9	80.4
SE	1.4	0.3	.7	.0	.0	.0	.0	8.4	1.4	.0	1.4	.0	.7		.0	88.1
S	1.6	1.6	.0	.0	.0	.0	.0	3.3	6.6	1.6	1.6	.0	.0		.0	88.5
SW	26.1	.0	.0	.0	.0	.0	.0	26.1	.0	8.7	.0	.0	.0		.0	73.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0		.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	3.2	5.6	1.2	.0	.0	.0	.0	9.6	2.9	1.2	.9	.0	.9		.3	85.2
TOT OBS:	344															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.0	6.0	.0	.0	.0	.0	.0	9.0	1.5	.0	.7	.0	.7		.0	88.1
06&09	2.4	4.8	2.4	.0	.0	.0	.0	9.5	.0	.0	.0	.0	.0		2.4	88.1
12&15	4.7	4.7	2.0	.0	.0	.0	.0	11.5	2.7	2.7	2.0	.0	1.4		.0	81.8
18&21	.0	6.8	.0	.0	.0	.0	.0	6.8	9.1	.0	.0	.0	.0		.0	84.1
TOT PCT	3.3	5.4	1.1	.0	.0	.0	.0	9.8	2.7	1.1	1.1	.0	.8		.3	85.1
TOT OBS:	368															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	.8	.3	.0	.0	.0		2.2	5.0	3.4	.0	2.1	.0	2.0	.0	.0	.0
NE	1.2	4.3	3.5	.0	.0	.0		9.0	9.5	10.6	33.3	8.3	.0	7.9	.0	7.8	.0
E	2.0	13.2	15.5	1.6	.0	.0		32.3	12.0	32.5	.0	38.0	.0	35.1	100.0	19.6	33.3
SE	3.5	15.3	19.8	4.2	.0	.0		42.9	12.2	38.3	8.3	37.0	100.0	45.2	.0	53.9	33.3
S	.6	5.0	2.7	.3	.0	.0		8.6	10.0	8.0	25.0	12.0	.0	6.6	.0	14.7	.0
SW	.3	1.0	.1	.0	.0	.0		1.3	7.2	1.8	.0	.5	.0	1.6	.0	.0	.0
W	.2	.7	.6	.0	.0	.0		1.5	10.1	1.8	25.0	2.1	.0	.6	.0	2.0	.0
NW	.6	.4	.7	.0	.0	.0		1.7	8.4	3.5	8.3	.0	.0	.3	.0	.0	33.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4							.4	.0	.0	.0	.0	.0	.6	.0	2.0	.0
TOT OBS	44	182	193	27	0	0	446		11.3	163	3	48	4	173	1	51	3
TOT PCT	9.9	40.8	43.3	6.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	.7	.0	.0	.0		2.2	5.0	3.3	1.9	2.0	.0
NE	3.4	4.5	1.0	.0	.0		9.0	9.5	11.0	7.7	7.9	7.4
E	6.8	17.5	7.4	.6	.0		32.3	12.0	31.9	35.1	35.5	20.4
SE	10.7	21.6	9.8	.8	.0		42.9	12.2	37.8	41.8	45.0	52.8
S	2.7	4.7	1.1	.2	.0		8.6	10.0	8.3	11.1	6.6	13.9
SW	.6	.7	.1	.0	.0		1.3	7.2	1.8	.5	1.6	.0
W	.4	.7	.4	.0	.0		1.5	10.1	2.3	1.9	.6	1.9
NW	.6	1.1	.1	.0	.0		1.7	8.4	3.6	.0	.3	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.4						.4	.0	.0	.0	.6	1.9
TOT OBS	121	230	88	7	0	446		11.3	166	52	174	54
TOT PCT	27.1	51.6	19.7	1.6	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	10.8	45.8	39.2	4.2	.0	.0	10.4	100.0	166
06&09	.0	5.8	28.8	61.5	3.8	.0	.0	12.5	100.0	52
12&15	.5	12.1	42.5	39.1	5.7	.0	.0	10.8	100.0	174
18&21	1.9	.0	31.5	51.9	14.8	.0	.0	14.5	100.0	54
TOT	2	42	182	193	27	0	0	11.3		446
PCT	.4	9.4	40.8	43.3	6.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.5	1.2		7.4
NE	2.6	2.3	3.3	2.0		4.5
E	5.7	9.0	14.6	7.1		5.2
SE	5.9	11.4	14.2	7.4		5.1
S	1.5	2.9	3.0	3.3		5.5
SW	.0	.3	.0	.2		5.0
W	.0	.3	.6	.0		5.0
NW	.0	.3	.0	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.6	.0	.0		4.0
TOT OBS	26	45	60	35	166	5.1
TOT PCT	15.7	27.1	36.1	21.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 2499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.2	.5	.0	.0	.0	.0	.0	
NE	.0	.0	.0	1.8	.0	.9	.2	.0	.0	.0	7.2	
E	.0	.0	.6	4.4	5.9	2.3	.5	.0	.0	.0	22.9	
SE	.0	.0	.6	3.8	7.5	1.4	.0	.0	.0	.0	25.6	
S	.0	.0	.5	2.7	1.1	1.1	.0	.0	.0	.0	5.4	
SW	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.3	
W	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.3	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
TOT OBS	0	0	3	21	26	10	1	1	0	0	104	166
TOT PCT	.0	.0	1.8	12.7	15.7	6.0	.6	.6	.0	.0	62.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
* OR >3500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >2000	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
* OR >1000	21.3	22.5	22.5	22.5	22.5	22.5	22.5	22.5
* OR >600	28.4	36.1	36.7	36.7	36.7	36.7	36.7	36.7
* OR >300	29.0	37.3	37.9	38.5	38.5	38.5	38.5	38.5
* OR >150	29.0	37.3	37.9	38.5	38.5	38.5	38.5	38.5
* OR > 0	29.0	37.3	37.9	38.5	38.5	38.5	38.5	38.5
TOTAL	49	63	64	65	65	65	65	65

TOTAL NUMBER OF OBS: 169 PCT FREQ NH <5/8: 61.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.2	14.5	14.0	15.7	16.3	5.2	7.6	11.0	14.5	.0	172

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
2<5	PCP	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.3	.0	.3	.3	.0	.0	.0	.0	.0	.9	
	TOT %	.0	.3	.3	.3	.3	.0	.0	.0	.0	.0	1.2	
5<10	PCP	.3	.7	2.8	1.9	.1	.3	.0	.0	.0	.0	6.1	
	NO PCP	1.7	3.5	9.1	15.6	3.2	.4	.0	.6	.0	.0	34.1	
	TOT %	2.0	4.2	11.9	17.5	3.4	.7	.0	.6	.0	.0	40.2	
10+	PCP	.3	.1	.7	1.3	.1	.1	.0	.3	.0	.0	2.9	
	NO PCP	.4	5.3	19.1	21.9	4.8	.9	.9	.6	.0	.3	54.2	
	TOT %	.7	5.4	19.8	23.2	5.0	1.0	.9	.9	.0	.3	57.1	
	TOT OBS												343
	TOT PCT	2.8	9.9	32.7	41.7	8.6	1.7	.9	1.5	.0	.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.1	.4	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.6	
1<2	0-3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.0	.0	.3	.0	.0	.0	.0		.6	
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.3	.3	.3	.3	.0	.0	.0	.0	.0	1.2	
5<10	0-3	1.3	.3	1.6	3.3	.2	.1	.0	.4	.0	.0	7.2	
	4-10	.6	1.6	3.5	8.9	2.2	.6	.0	.0	.0		17.4	
	11-21	.1	2.3	5.9	4.7	.7	.0	.0	.1	.0		13.9	
	22+	.0	.0	.9	.4	.1	.0	.0	.0	.0		1.4	
	TOT %	2.0	4.2	11.8	17.4	3.3	.7	.0	.6	.0	.0	40.0	
10+	0-3	.0	.8	.4	1.2	.5	.3	.3	.3	.0	.3	4.1	
	4-10	.5	3.0	8.8	5.4	2.6	.6	.7	.5	.0		22.0	
	11-21	.2	1.8	9.3	13.5	1.6	.1	.0	.1	.0		26.7	
	22+	.0	.0	1.2	3.3	.2	.0	.0	.0	.0		4.6	
	TOT %	.7	5.7	19.6	23.3	4.9	1.0	.9	.9	.0	.3	57.4	
	TOT OBS												345
	TOT PCT	2.8	10.1	32.5	41.7	8.6	1.7	.9	1.4	.0	.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.6	12.8	10.3	5.1	.0	.0	.0	.0	30.8	69.2	39
06&09	.0	.0	.0	15.4	10.3	7.7	2.6	.0	.0	.0	35.9	64.1	39
12&15	.0	.0	.0	12.2	20.4	8.2	.0	.0	.0	.0	40.8	59.2	49
18&21	.0	.0	4.5	15.9	18.2	2.3	.0	2.3	.0	.0	43.2	56.8	44
TOT	0	0	3	24	26	10	1	1	0	0	65	106	171
PCT	.0	.0	1.8	14.0	15.2	5.8	.6	.6	.0	.0	38.0	62.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.7	.0	1.5	50.0	47.8	134
06&09	2.4	.0	.0	.0	16.7	81.0	42
12&15	.0	.7	.7	1.4	52.0	45.3	148
18&21	.0	.0	2.2	.0	17.8	80.0	45
TOT	1	2	2	4	159	201	369
PCT	.3	.5	.5	1.1	43.1	54.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.6	15.8	15.8	68.4	38
06&09	.0	.0	15.4	20.5	64.1	39
12&15	.0	.0	12.5	29.2	58.3	48
18&21	.0	4.5	20.5	22.7	56.8	44
TOT	0	3	27	38	104	169
PCT	.0	1.8	16.0	22.5	61.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.3	.0	.0	1	.3
85/89	.0	.0	.0	.7	.7	3.1	.0	.0	13	4.5
80/84	.0	.0	.0	1.4	1.7	9.7	9.4	2.1	70	24.3
75/79	.0	.0	.0	.0	5.9	17.7	27.1	10.8	177	61.5
70/74	.0	.0	.0	.0	.7	2.4	5.2	.7	26	9.0
65/69	.0	.0	.0	.0	.0	.0	.0	.3	1	.3
TOTAL	0	0	0	6	26	96	120	40	288	100.0
PCT	.0	.0	.0	2.1	9.0	33.3	41.7	13.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
.0	.5	2.6	1.0	.0	.3	.0	.0	.0	.0
.8	2.5	9.4	8.4	1.1	.1	.9	1.1	.0	.0
.7	5.2	22.7	23.4	6.4	1.0	.8	1.0	.0	.3
.0	.3	2.0	5.5	1.2	.0	.0	.0	.0	.0
.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
1.5	8.6	37.1	38.5	8.9	1.4	1.6	2.1	.0	.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	87	80	74	69	69	80.0	171
06&09	85	84	83	78	74	69	69	78.4	52
12&15	85	81	80	76	73	70	70	76.3	189
18&21	81	80	80	77	74	74	74	77.0	56
TOT	90	87	84	78	73	70	69	78.0	468

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.5	14.1	38.0	32.6	8.7	77	92
06&09	.0	.0	11.1	35.6	44.4	8.9	80	45
12&15	.0	.0	5.5	24.8	53.2	16.5	83	109
18&21	.0	.0	4.1	36.7	32.7	26.5	83	49
TOT	0	6	26	96	124	43	80	295

OCTOBER

PERIOD: (PRIMARY) 1897-1977
(OVER-ALL) 1874-1977

AREA 0013 FIJI ISLANDS
17.3S 53.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.0	.0	1.1	.4	4	.0	1.5
6	.0	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.4	.0	.0	.4	.0	2	.0	.7
4	.0	.0	.0	.4	1.1	.0	4	.0	1.5
3	.0	.4	.0	.7	.4	.0	4	.0	1.5
2	.4	.0	2.2	1.5	.0	.0	11	.0	4.1
1	.4	.4	7.0	2.6	.0	.0	28	.0	10.3
0	.4	2.6	9.2	1.8	.0	.4	39	.7	13.7
-1	.4	6.6	12.5	2.6	.4	.0	61	.4	22.1
-2	.0	6.6	8.1	.4	.0	.0	41	.4	14.8
-3	1.1	8.1	3.3	.4	.0	.0	35	.0	12.9
-4	.0	3.0	3.0	.0	.0	.0	16	.0	5.9
-5	.0	4.1	1.8	.0	.0	.0	16	.0	5.9
-6	.0	1.1	.0	.0	.0	.0	3	.0	1.1
-7/-8	.0	.4	.0	.0	.0	.0	1	.0	.4
-9/-10	.7	.7	.0	.0	.0	.0	4	.0	1.5
TOTAL	9	93	128	28	10	3	271	4	267
PCT	3.3	34.3	47.2	10.3	3.7	1.2	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.8	.0	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.0	.0	.0	.0	1.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.0	.0	.0	.0	.0	.8
1-2	.8	3.9	.0	.0	.0	.0	4.7
3-4	.0	.9	1.3	.0	.0	.0	2.3
5-6	.0	.8	1.3	.0	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.6	3.4	.0	.0	.0	10.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3
1-2	.0	7.1	.6	.0	.0	.0	7.7
3-4	.0	2.8	12.2	.0	.0	.0	15.0
5-6	.0	.8	7.7	.0	.0	.0	8.5
7	.0	.0	1.1	.6	.0	.0	1.7
8-9	.0	.0	2.3	.6	.0	.0	2.8
10-11	.0	.0	.0	1.3	.0	.0	1.3
12	.0	.0	.8	.0	.0	.0	.8
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.0	24.6	2.4	.0	.0	40.0

SE

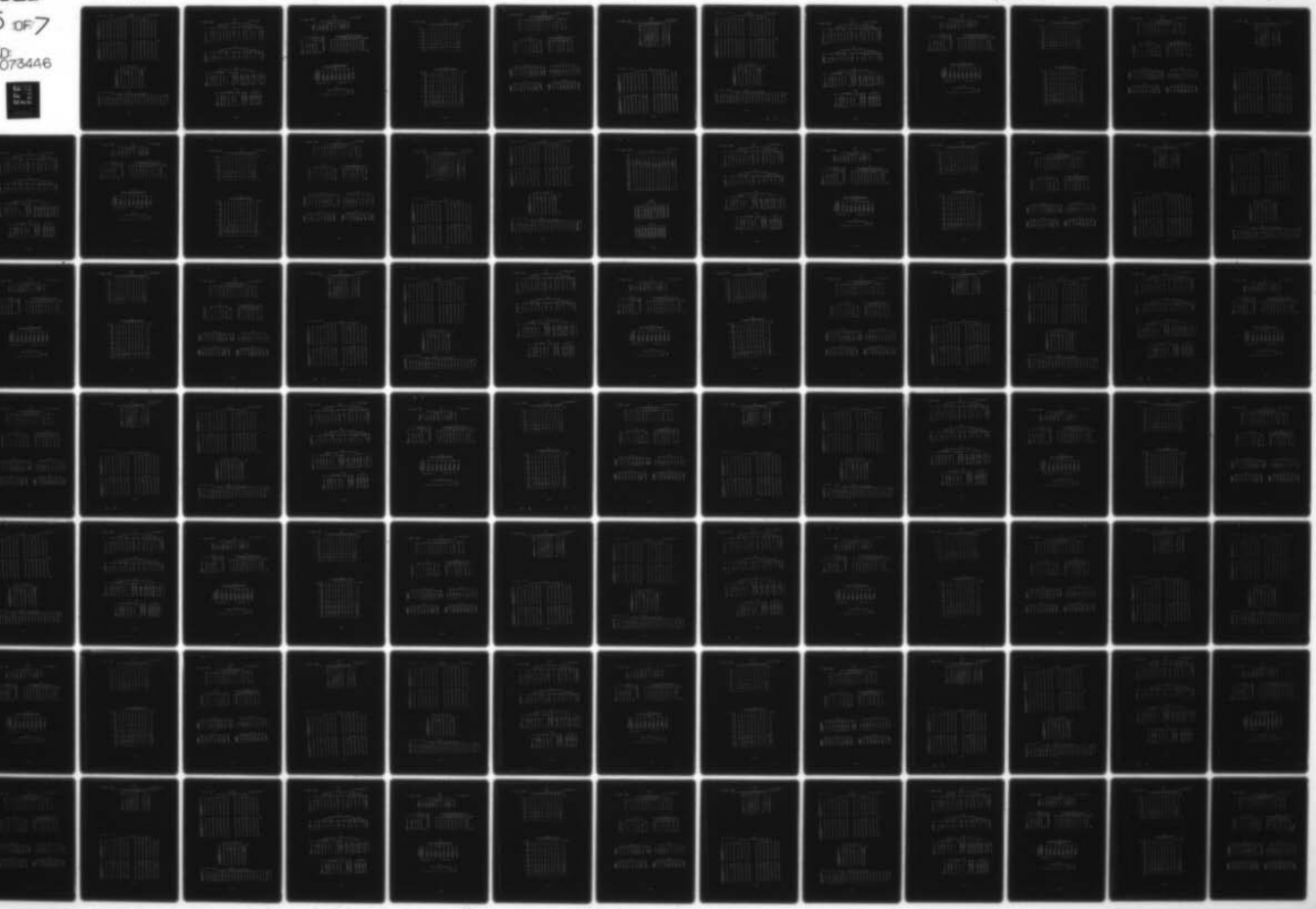
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.4	.0	.0	.0	.0	1.3
1-2	.0	2.4	.9	.0	.0	.0	3.4
3-4	.0	.9	10.7	.0	.0	.0	11.7
5-6	.0	.8	10.9	2.3	.0	.0	13.9
7	.0	.0	1.9	2.4	.0	.0	4.3
8-9	.0	.0	2.3	.2	.0	.0	2.4
10-11	.0	.0	.0	1.1	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.5	26.7	6.0	.0	.0	38.2

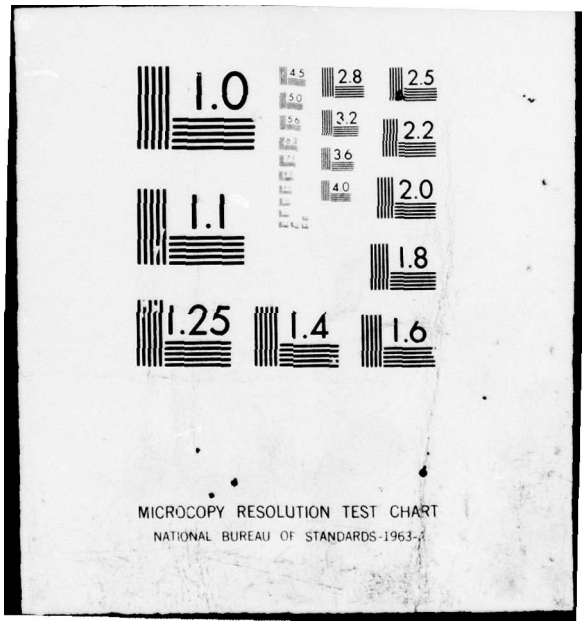
AD-A073 446 NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO) SELECTED--ETC(U)
SEP 79

UNCLASSIFIED NL

5 OF 7

AD A073446




1.0
1.1
1.25
1.4
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1.8
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2.8
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5.0
5.6
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-

PERIOD: (OVER-ALL) 1968-1977

OCTOBER

AREA 0013 FIJI ISLANDS
17.3S 53.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.3	1.9	.0	.0	.0	3.2	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.2	.0	.0	.0	.2
7	.6	.0	.0	.0	.0	.0	.6	.2	.0	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.2	3.6	.6	.0	.0	8.5	.2	.0	.4	.0	.0	.0	.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.7	4.5	.0	.0	.0	.0	8.2	
1-2	.7	14.2	1.5	.0	.0	.0	16.4	
3-4	.0	6.7	26.1	.0	.0	.0	32.8	
5-6	.0	2.2	21.6	2.2	.0	.0	26.1	
7	.7	.0	3.0	3.0	.0	.0	6.7	
8-9	.0	.0	5.2	.7	.0	.0	6.0	
10-11	.0	.0	.0	3.0	.0	.0	3.0	
12	.0	.0	.7	.0	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	27.6	58.2	9.0	.0	.0	100.0	134

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	8.1	12.5	13.1	3.1	3.8	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	4
6-7	.0	.6	6.3	10.0	3.1	8.1	1.3	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	6
8-9	.0	.6	1.9	3.8	3.1	.0	.0	.6	1.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	19	7
10-11	.0	.0	.0	.6	.0	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
12-13	.0	.0	.0	.6	1.9	1.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
>13	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	1.3	.0	1.3	1.3	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
TOTAL	4	15	35	47	20	23	5	5	4	1	0	1	0	0	0	0	0	0	0	160	6
PCT	2.5	9.4	21.9	29.4	12.5	14.4	3.1	3.1	2.5	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1897-1977
(OVER-ALL) 1873-1977

AREA 0013 FIJI ISLANDS
17.6S 87.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.9	5.7	.0	.0	.0	.0	.0	8.6	.0	2.9	.0	.0	.0		.0	91.4
NE	4.1	10.8	.0	.0	.0	.0	.0	14.9	.0	1.4	1.4	.0	.0		.0	83.8
E	3.7	4.2	1.6	.0	.0	.0	.0	9.6	1.6	.9	1.4	.0	.0		.0	86.4
SE	3.1	4.6	.3	.0	.0	.0	.0	8.0	2.8	1.9	1.9	.0	.8		.0	85.3
S	4.5	11.2	1.7	.0	.0	.0	.0	17.3	1.7	.0	.0	.0	1.7		.0	79.3
SW	.0	8.3	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0		.0	91.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0		.0	92.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0		.0	83.3
TOT PCT	3.2	5.6	.7	.0	.0	.0	.0	9.5	1.7	1.5	1.2	.0	.7		.0	85.8
TOT OBS:	409															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.6	5.5	.0	.0	.0	.0	.0	7.1	.0	.0	1.1	.0	1.6		.0	90.2
06&09	7.8	2.0	2.0	.0	.0	.0	.0	11.8	3.9	.0	.0	.0	.0		.0	84.3
12&15	4.5	9.0	1.5	.0	.0	.0	.0	14.9	2.2	4.5	2.2	.0	.0		.0	77.6
18&21	1.9	1.9	.0	.0	.0	.0	.0	3.7	3.7	.0	.0	.0	.0		.0	92.6
TOT PCT	3.3	5.7	.7	.0	.0	.0	.0	9.7	1.7	1.4	1.2	.0	.7		.0	85.8
TOT OBS:	422															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	2.6	.7	.0	.0	.0		4.9	6.5	6.6	.0	3.5	.0	2.9	.0	5.5	.0
NE	2.3	4.9	2.4	.2	.0	.0		9.7	8.1	12.8	.0	9.6	.0	7.3	.0	5.1	.0
E	1.1	12.3	12.0	2.3	.2	.0		27.9	12.0	25.5	.0	25.4	.0	30.9	.0	30.9	43.8
SE	3.3	17.4	16.4	2.0	.0	.0		39.1	11.0	33.3	.0	46.5	.0	43.8	.0	42.8	31.3
S	1.9	4.5	3.2	.2	.0	.0		9.7	8.8	7.5	100.0	12.7	.0	9.9	.0	12.3	25.0
SW	.8	1.7	.3	.0	.0	.0		2.7	6.6	3.5	.0	2.2	.0	2.7	.0	.0	.0
W	1.2	.6	.4	.0	.0	.0		2.2	5.8	3.5	.0	.0	.0	1.3	.0	1.7	.0
NW	1.2	1.2	.3	.0	.0	.0		2.7	6.1	6.1	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	1.4	.0	.0	.0	1.3	.0	1.7	.0
TOT OBS	72	225	178	23	1	0	499		10.1	221	1	57	0	157	0	59	4
TOT PCT	14.4	45.1	35.7	4.6	.2	.0		100.0		100.0	100.0	100.0	.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	1.8	.1	.0	.0		4.9	6.5	6.5	3.5	2.9	5.2
NE	4.4	4.8	.6	.0	.0		9.7	8.1	12.7	9.6	7.3	4.8
E	5.1	17.6	4.1	1.2	.0		27.9	12.0	25.3	25.4	30.9	31.7
SE	11.6	19.4	7.8	.3	.0		39.1	11.0	33.1	46.5	43.8	42.1
S	4.0	5.0	.6	.2	.0		9.7	8.8	7.9	12.7	9.9	13.1
SW	1.4	1.3	.0	.0	.0		2.7	6.6	3.5	2.2	2.7	.0
W	1.4	.8	.0	.0	.0		2.2	5.8	3.5	.0	1.3	1.6
NW	1.8	.6	.3	.0	.0		2.7	6.1	6.1	.0	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	1.4	.0	1.3	1.6
TOT OBS	168	256	67	8	0	499		10.1	222	57	157	63
TOT PCT	33.7	51.3	13.4	1.6	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&04	1.4	16.7	45.9	33.8	2.3	.0	.0	9.1	100.0	222
06&09	.0	3.5	43.9	43.9	7.0	1.8	.0	12.5	100.0	57
12&15	1.3	15.9	49.0	28.0	5.7	.0	.0	9.6	100.0	157
18&21	1.6	3.2	33.3	54.0	7.9	.0	.0	12.6	100.0	63
TOT	6	66	225	178	23	1	0	10.1		499
PCT	1.2	13.2	45.1	35.7	4.6	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	1.6	1.6	.0		4.0
NE	1.0	1.6	2.3	2.3		5.6
E	7.3	7.2	10.2	7.6		4.8
SE	5.7	12.8	12.4	7.6		4.9
S	1.5	3.9	4.3	2.0		5.1
SW	.5	.5	1.2	.0		4.4
W	.0	.0	.5	.0		6.0
NW	.0	.5	.0	1.1		6.6
VAR	.0	.0	.0	.0		.0
CALM	.5	.5	.0	.4		4.3
TOT OBS	32	53	60	39	184	4.9
TOT PCT	17.4	28.8	32.6	21.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	3.0	
NE	.0	.0	.0	.1	1.4	.7	.0	.0	.0	.0	5.0	
E	.0	.0	.4	3.7	4.2	1.4	.0	.0	.0	.0	22.7	
SE	.0	.0	1.9	1.8	4.2	2.4	.0	.0	.0	.1	28.0	
S	.0	.0	.4	.4	1.6	1.5	.0	.0	.0	.4	7.5	
SW	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	1.8	
W	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.5	
NW	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	1.1	
TOT OBS	0	0	5	11	26	12	0	0	0	1	129	184
TOT PCT	.0	.0	2.7	6.0	14.1	6.5	.0	.0	.0	.5	70.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.0	.5	.5	.5	.5	.5	.5	.5
= OR >3500	.0	.5	.5	.5	.5	.5	.5	.5
= OR >2000	6.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
= OR >1000	18.3	21.0	21.0	21.5	21.5	21.5	21.5	21.5
= OR >600	20.4	26.3	26.9	27.4	27.4	27.4	27.4	27.4
= OR >300	22.0	29.0	29.6	30.1	30.1	30.1	30.1	30.1
= OR >150	22.0	29.0	29.6	30.1	30.1	30.1	30.1	30.1
= OR > 0	22.0	29.0	29.6	30.1	30.1	30.1	30.1	30.1
TOTAL	41	54	55	56	56	56	56	56

TOTAL NUMBER OF OBS: 186

PCT FREQ NH <5/8: 69.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.5	14.2	22.8	14.2	15.7	5.6	7.1	6.6	11.2	.0	197

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.2	.5	.4	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.0	.2	1.0	.7	.0	.0	.0	.0	.0	2.0	
5<10	PCP	.4	1.1	2.1	2.2	1.0	.0	.0	.0	.0	.0	6.9	
	NO PCP	.6	2.9	6.1	15.1	2.5	.2	.2	1.3	.0	.0	28.9	
	TOT %	1.0	4.0	8.2	17.3	3.5	.2	.2	1.3	.0	.0	35.8	
10+	PCP	.0	.2	.2	.4	.6	.2	.0	.0	.0	.0	1.7	
	NO PCP	3.3	4.7	17.1	20.7	6.2	2.5	2.4	1.7	.0	1.5	60.0	
	TOT %	3.3	5.0	17.3	21.1	6.8	2.7	2.4	1.7	.0	1.5	61.8	
	TOT OBS												408
	TOT PCT	4.3	9.1	26.0	39.5	11.0	2.9	2.6	3.1	.0	1.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.1	.4	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.7	.2	.0	.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	1.0	.7	.0	.0	.0	.0	.0	2.0	
5<10	0-3	.5	1.2	.8	2.6	1.2	.2	.2	.5	.0	.0	7.3	
	4-10	.1	1.6	4.3	9.6	1.7	.0	.0	.7	.0		17.8	
	11-21	.4	1.0	2.3	4.6	.4	.0	.0	.1	.0		8.8	
	22+	.0	.1	1.0	.6	.2	.0	.0	.0	.0		2.0	
	TOT %	1.0	4.0	8.4	17.2	3.5	.2	.2	1.3	.0	.0	35.9	
10+	0-3	.7	1.0	.5	.6	.9	.7	1.2	.7	.0	1.5	7.8	
	4-10	2.1	2.5	6.4	7.3	3.0	1.7	.7	.7	.0		24.4	
	11-21	.5	1.4	9.3	11.7	2.9	.3	.5	.2	.0		26.8	
	22+	.0	.0	1.2	1.5	.0	.0	.0	.0	.0		2.7	
	TOT %	3.3	4.9	17.4	21.1	6.8	2.7	2.4	1.7	.0	1.5	61.7	
	TOT OBS												410
	TOT PCT	4.3	9.0	26.3	39.4	10.9	2.9	2.6	3.0	.0	1.5	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	UND 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	5.5	18.2	3.6	.0	.0	.0	.0	27.3	72.7	55
06&09	.0	.0	9.8	5.9	9.8	9.8	.0	.0	.0	.0	35.3	64.7	51
12&15	.0	.0	.0	8.1	13.5	5.4	.0	.0	2.7	2.7	32.4	67.6	37
18&21	.0	.0	.0	3.9	13.7	5.9	.0	.0	.0	.0	23.5	76.5	51
TOT	0	0	5	11	27	12	0	0	1	1	57	137	194
PCT	.0	.0	2.6	5.7	13.9	6.2	.0	.0	.5	.5	29.4	70.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.5	37.0	62.5	184
06&09	.0	.0	2.0	2.0	15.7	80.4	51
12&15	.0	.7	.0	1.5	57.8	40.0	135
18&21	.0	.0	.0	7.4	3.7	88.9	54
TOT	0	1	1	8	156	258	424
PCT	.0	.2	.2	1.9	36.8	60.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <5&VSBY	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	7.4	22.2	70.4	54
06&09	.0	10.0	20.0	18.0	62.0	50
12&15	.0	.0	8.8	23.5	67.6	34
18&21	.0	.0	6.3	20.8	72.9	48
TOT	0	5	20	39	127	186
PCT	.0	2.7	10.8	21.0	68.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.3	.3	.3	.3	.0	.7	6	2.0
85/89	.0	.0	.0	1.3	.7	2.6	.7	1.6	21	6.9
80/84	.0	.0	.3	.3	3.3	11.8	14.8	4.6	107	35.1
75/79	.0	.0	.0	.0	4.6	15.7	19.3	10.8	154	50.5
70/74	.0	.0	.0	.3	.7	.0	1.3	2.6	15	4.9
65/69	.0	.0	.0	.0	.0	.7	.0	.0	2	.7
TOTAL	0	0	2	7	29	95	110	62	305	100.0
PCT	.0	.0	.7	2.3	9.5	31.1	36.1	20.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.0	.0	.0	.0	.3	.3	1.0	.0	.0
.3	2.2	1.7	.4	.6	.3	1.3	.0	.0	.0
2.8	2.4	10.6	9.8	3.5	2.0	1.2	.8	.0	2.0
1.0	2.7	15.6	24.4	4.4	2.4	.3	.7	.0	.0
.7	.0	.7	2.7	.9	.0	.0	.0	.0	.0
.4	.2	.0	.0	.0	.0	.0	.0	.0	.0
5.5	7.5	28.5	37.4	9.4	4.0	3.2	2.5	.0	2.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	92	91	88	81	76	73	73	81.3	223
06&09	89	88	82	79	75	73	73	78.9	59
12&15	82	81	80	77	74	72	72	77.2	167
18&21	85	84	82	78	73	69	69	78.0	60
TOT	92	90	85	79	74	73	69	79.2	509

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.6	16.5	28.9	26.4	21.5	79	121
06&09	.0	.0	7.5	35.8	37.7	18.9	81	53
12&15	.0	1.2	3.6	29.8	45.2	20.2	83	84
18&21	.0	.0	5.7	30.2	47.2	17.0	82	53
TOT	0	9	30	95	115	62	81	311

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17.6S 87.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.3	.3	.0	2	.0	.7
9/10	.0	.0	.3	.3	.0	.0	2	.0	.7
7/8	.0	.0	.3	.0	.0	.0	1	.0	.3
6	.0	.0	.3	.3	.0	.0	2	.0	.7
5	.0	.0	.0	.0	.3	.0	1	.0	.3
4	.0	.0	.3	.3	.0	.0	2	.0	.7
3	.0	.0	.7	3.0	.7	.0	13	.3	3.9
2	.0	.3	1.3	2.6	1.0	.0	16	.0	5.3
1	.0	1.0	4.6	3.3	.3	.0	28	.3	8.9
0	.0	1.0	9.9	3.9	.0	.0	45	.0	14.8
-1	.0	3.6	13.5	2.3	.0	.3	60	.0	19.7
-2	.0	5.6	9.5	2.0	.0	.0	52	.7	16.4
-3	.0	4.3	5.6	1.0	.0	.0	33	.0	10.9
-4	.3	3.3	1.6	1.0	.0	.0	19	.0	6.3
-5	.0	3.3	2.3	.0	.0	.0	17	.0	5.6
-6	.0	.7	1.0	.0	.0	.0	5	.0	1.6
-7/-8	.0	.7	1.0	.0	.0	.0	5	.0	1.6
-9/-10	.0	.0	.3	.0	.0	.0	1	.0	.3
TOTAL	1	72	160	62	8	1	304	4	300
PCT	.3	23.7	52.7	20.4	2.6	.3	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	1.4	.7	.0	.0	.0	2.1
3-4	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	2.1	.0	.0	.0	4.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.0	.0	.0	.0	1.0
1-2	.0	2.1	2.1	.0	.0	.0	4.1
3-4	.0	.7	2.6	.0	.0	.0	3.3
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.8	4.7	.0	.0	.0	8.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.9	.0	.0	.0	.0	2.9
1-2	.0	4.7	1.9	.0	.0	.0	6.6
3-4	.0	2.9	5.3	.5	.0	.0	8.8
5-6	.0	2.6	5.7	.0	.0	.0	8.3
7	.0	.0	1.4	2.1	.0	.0	3.4
8-9	.0	.7	.7	.0	.0	.0	1.4
10-11	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	12.8	15.0	3.3	.0	.0	32.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.7	7.6	2.9	.0	.0	.0	11.2
3-4	.0	3.3	6.7	.2	.0	.0	10.2
5-6	.0	.0	9.5	1.4	.0	.0	10.9
7	.0	.0	3.4	.0	.0	.0	3.4
8-9	.0	.0	.7	1.4	.0	.0	2.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	10.9	23.3	2.9	.0	.0	37.9

PERIOD: (OVER-ALL) 1969-1977

NOVEMBER

AREA 0013 FIJI ISLANDS
17.6S 87.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.0	.5	.0	.0	.0	5.5	.0	1.4	.2	.0	.0	.0	1.6
3-4	.0	.7	1.9	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	3.1	.0	.0	.0	10.2	.0	1.4	.9	.0	.0	.0	2.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
3-4	.0	.0	.7	.0	.0	.0	.7	.0	1.4	.0	.0	.0	.0	1.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.7	.0	.0	.0	.7	.0	1.4	.7	.0	.0	.0	2.1	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	4.7	.0	.0	.0	.0	8.1	
1-2	2.7	22.1	8.7	.0	.0	.0	33.6	
3-4	.0	8.7	18.1	.7	.0	.0	27.5	
5-6	.0	2.7	15.4	1.3	.0	.0	19.5	
7	.0	.0	5.4	2.0	.0	.0	7.4	
8-9	.0	.7	1.3	1.3	.0	.0	3.4	
10-11	.0	.0	.0	.7	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.0	38.9	49.0	6.0	.0	.0	100.0	149

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	10.5	12.3	9.4	4.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	4
6-7	.0	1.2	8.2	12.3	5.3	3.5	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	5
8-9	.0	.6	2.3	2.3	5.3	3.5	.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
10-11	.0	.0	.6	1.2	.6	1.2	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
12-13	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	1.8	.0	2.3	1.2	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
TOTAL	5	21	46	45	28	15	6	0	4	1	0	0	0	0	0	0	0	0	0	171	5
PCT	2.9	12.3	26.9	26.3	16.4	8.8	3.5	.0	2.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1933-1977
(OVER-ALL) 1873-1977

AREA 0013 FIJI ISLANDS
17.5S 45.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	21.7	4.9	.0	.0	.0	.0	.0	24.6	.0	11.6	.0	.0	.0		.0	63.8
NE	9.2	4.3	2.2	.0	.0	.0	.0	15.8	4.9	2.2	1.1	.0	.0		.0	76.1
E	4.0	2.8	2.0	.0	.0	.0	.0	8.8	2.5	1.0	.5	.0	1.0		.0	86.1
SE	2.0	0.9	1.0	.0	.0	.0	.0	9.9	1.5	1.0	.0	.0	.0		.0	87.6
S	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0		.0	95.7
SW	17.4	.0	.0	.0	.0	.0	.0	17.4	.0	.0	.0	.0	.0		.0	82.6
W	4.3	4.3	.0	.0	.0	.0	.0	8.6	4.3	.0	.0	.0	.0		.0	87.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	4.8	3.9	1.2	.0	.0	.0	.0	9.9	2.4	1.5	.3	.0	.3		.0	65.5
TOT OBS:	332															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	3.8	1.9	.6	.0	.0	.0	.0	6.3	1.3	.6	.0	.0	.6		.0	91.2
06&09	12.2	7.3	.0	.0	.0	.0	.0	19.5	.0	.0	.0	.0	.0		.0	80.5
12&15	4.9	5.8	1.0	.0	.0	.0	.0	11.7	2.9	3.9	1.0	.0	.0		.0	80.6
18&21	4.4	2.2	6.7	.0	.0	.0	.0	13.3	6.7	.0	.0	.0	.0		.0	80.0
TOT PCT	5.2	3.7	1.4	.0	.0	.0	.0	10.3	2.3	1.4	.3	.0	.3		.0	85.3
TOT OBS:	348															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	2.2	.8	.2	.5	.0		4.6	11.7	6.3	.0	2.3	.0	2.1	.0	7.2	.0
NE	2.2	7.0	4.1	.3	.0	.0		13.6	9.0	16.4	.0	6.5	.0	11.3	.0	13.9	.0
E	2.2	13.3	14.1	1.6	.3	.0		31.5	11.7	26.9	.0	31.8	87.5	38.3	.0	29.4	.0
SE	1.1	13.6	14.5	.6	.0	.0		29.8	11.2	23.4	.0	37.5	12.5	35.0	.0	35.6	.0
S	.4	2.7	2.4	.0	.0	.0		5.5	9.4	5.3	.0	10.8	.0	5.0	.0	2.2	.0
SW	1.1	.3	.3	.0	.0	.0		1.7	5.1	2.0	.0	2.3	.0	.8	.0	2.2	.0
W	2.1	2.7	1.1	.2	.3	.0		6.3	8.0	10.1	.0	6.3	.0	1.7	.0	3.9	.0
NW	1.5	3.1	.5	.1	.0	.0		5.1	5.9	9.0	.0	.6	.0	1.7	.0	3.3	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	.5	.0	.0	.0	4.2	.0	2.2	.0
TOT OBS	52	177	149	12	4	0	394		10.2	183	0	44	2	120	0	45	0
TOT PCT	13.2	44.9	37.8	3.0	1.0	.0		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.1	1.3	.6	.7	.0		4.6	11.7	6.3	2.2	2.1	7.2
NE	4.9	7.7	.9	.1	.0		13.6	9.0	16.4	8.2	11.3	13.9
E	7.9	16.8	6.3	.5	.0		31.5	11.7	26.9	34.2	38.3	29.4
SE	6.1	19.1	4.6	.0	.0		29.8	11.2	23.4	36.4	35.0	35.6
S	1.6	3.8	.0	.0	.0		5.5	9.4	5.3	10.3	5.0	2.2
SW	1.1	.6	.0	.0	.0		1.7	5.1	2.0	2.2	.8	2.2
W	3.9	1.7	.4	.3	.0		6.3	8.0	10.1	6.0	1.7	3.9
NW	3.7	1.3	.1	.0	.0		5.1	5.9	9.0	.5	1.7	3.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	.5	.0	4.2	2.2
TOT OBS	131	206	51	6	0	394		10.2	183	46	120	45
TOT PCT	33.2	52.3	12.9	1.5	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1933-1977
(OVER-ALL) 1873-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.5	17.5	46.4	32.8	1.6	1.1	.0	8.9	100.0	183
06&09	.0	6.5	50.0	34.8	6.5	2.2	.0	11.7	100.0	46
12&15	4.2	5.0	43.3	43.3	4.2	.0	.0	10.9	100.0	120
18&21	2.2	8.9	37.8	46.7	2.2	2.2	.0	12.0	100.0	45
TOT	7	45	177	149	12	4	0	10.2		394
PCT	1.8	11.4	44.9	37.8	3.0	1.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	2.2	.9	.6		4.0
NE	2.0	3.3	6.2	1.9		4.9
E	8.5	8.3	11.4	6.5		4.6
SE	6.3	8.5	13.2	3.3		4.4
S	1.0	3.4	2.0	1.0		4.6
SW	.0	1.3	.7	.0		4.6
W	.6	1.0	.0	2.3		6.0
NW	.0	1.3	.1	.0		3.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.6	.6	.0		6.0
TOT OBS	34	52	61	27	174	4.6
TOT PCT	19.5	29.9	35.1	15.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	
NE	.0	.0	.6	.6	1.0	.0	.1	.0	.0	.0	11.1	
E	.0	.0	.4	1.4	5.6	2.9	.4	.0	.0	.0	23.9	
SE	.0	.0	.1	3.2	4.3	1.1	.0	.6	.0	.0	22.0	
S	.0	.0	.4	.0	1.1	.0	.0	.0	.0	.0	5.9	
SW	.0	.0	.1	.0	.6	.0	.0	.0	.0	.0	1.3	
W	.0	.0	.0	.6	1.1	.0	.0	.0	.0	.0	2.2	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	0	0	3	10	24	7	1	1	0	0	128	174
TOT PCT	.0	.0	1.7	5.7	13.8	4.0	.6	.6	.0	.0	73.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
* OR >3500	.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >2000	2.8	5.0	5.0	5.0	5.0	5.0	5.0	5.0
* OR >1000	13.3	17.2	18.3	18.3	18.3	18.3	18.3	18.3
* OR >600	18.9	23.9	25.0	25.0	25.0	25.0	25.0	25.0
* OR >300	19.4	25.6	26.7	26.7	26.7	26.7	26.7	26.7
* OR >150	19.4	25.6	26.7	26.7	26.7	26.7	26.7	26.7
* OR > 0	19.4	25.6	26.7	26.7	26.7	26.7	26.7	26.7
TOTAL	35	46	48	48	48	48	48	48

TOTAL NUMBER OF OBS: 180 PCT FREQ NH <5/8: 73.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.6	16.4	21.5	15.9	14.4	8.7	4.6	3.6	12.3	.0	195

DECEMBER

PERIOD: (PRIMARY) 1933-1977
(OVER-ALL) 1873-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.3	.0	.3	.0	.0	.6	.0	.0	.0	1.2	
	NO PCP	.0	.3	.5	.4	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.6	.5	.7	.0	.0	.6	.0	.0	.0	2.4	
5<10	PCP	.8	1.2	2.0	1.1	.0	.3	.0	.0	.0	.0	5.5	
	NO PCP	.5	3.2	4.8	6.1	.5	.1	.8	.8	.0	.6	17.0	
	TOT %	1.3	4.4	6.8	7.2	.5	.4	.8	.5	.0	.6	22.4	
10+	PCP	.5	.7	.6	1.2	.0	.0	.0	.0	.0	.0	3.0	
	NO PCP	3.4	8.3	21.8	20.4	4.7	1.4	5.7	5.6	.0	.9	72.1	
	TOT %	3.9	8.9	22.4	21.6	4.7	1.4	5.7	5.6	.0	.9	75.2	
	TOT OBS												330
	TOT PCT	5.2	13.9	29.8	29.5	5.2	1.7	7.0	6.1	.0	1.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.0	.3	.0	.0	.0	.0	.0		.6	
	11-21	.0	.3	.3	.3	.0	.0	.3	.0	.0		1.2	
	22+	.0	.0	.2	.1	.0	.0	.3	.0	.0		.6	
	TOT %	.0	.6	.5	.7	.0	.0	.6	.0	.0	.0	2.4	
5<10	0-3	.0	.0	1.5	.1	.1	.3	.0	.0	.0	.6	2.7	
	4-10	.3	1.8	2.5	3.4	.2	.1	.7	.4	.0		9.5	
	11-21	.1	2.5	3.1	3.3	.1	.0	.0	.0	.0		9.2	
	22+	.8	.4	.4	.1	.0	.0	.0	.0	.0		1.8	
	TOT %	1.3	4.6	7.6	7.1	.5	.4	.7	.4	.0	.6	23.2	
10+	0-3	1.0	1.9	1.1	1.2	.3	.7	2.5	1.7	.0	.9	11.3	
	4-10	2.3	5.1	10.7	8.6	2.1	.3	2.5	3.2	.0		34.8	
	11-21	.5	1.7	9.2	11.4	2.4	.4	.7	.6	.0		26.8	
	22+	.0	.0	1.0	.4	.0	.0	.0	.0	.0		1.5	
	TOT %	3.9	8.8	22.0	21.7	4.8	1.3	5.6	5.5	.0	.9	74.4	
	TOT OBS												336
	TOT PCT	5.1	14.0	30.1	29.4	5.3	1.7	6.9	6.0	.0	1.5	100.0	

DECEMBER

PERIOD: (PRIMARY) 1933-1977
(OVER-ALL) 1873-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	1.7	3.4	10.2	.0	.0	.0	.0	.0	15.3	84.7	59
06&09	.0	.0	2.6	10.5	26.3	2.6	.0	.0	.0	.0	42.1	57.9	38
12&15	.0	.0	.0	2.1	12.8	8.5	2.1	.0	.0	.0	25.5	74.5	47
18&21	.0	.0	2.4	11.9	4.8	4.8	.0	2.4	.0	.0	26.2	73.8	42
TOT	0	0	3	12	24	7	1	1	0	0	48	138	186
PCT	.0	.0	1.6	6.5	12.9	3.8	.5	.5	.0	.0	25.8	74.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	1.3	20.6	78.1	160
06&09	.0	.0	.0	12.2	12.2	75.6	41
12&15	.0	.0	.9	.9	38.3	59.8	107
18&21	.0	.0	.0	.0	9.1	90.9	44
TOT	0	0	1	8	83	260	352
PCT	.0	.0	.3	2.3	23.6	73.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.7	5.2	10.3	84.5	58
06&09	.0	2.8	22.2	27.8	50.0	36
12&15	.0	.0	6.7	22.2	71.1	45
18&21	.0	2.4	14.6	12.2	73.2	41
TOT	0	3	20	31	129	180
PCT	.0	1.7	11.1	17.2	71.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	2.0	1.0	.0	.3	.0	10	3.3
85/89	.0	.0	.0	.3	6.0	4.7	2.3	.3	41	13.7
80/84	.0	.0	.0	.7	5.7	18.1	22.1	3.3	149	49.8
75/79	.0	.0	.0	.3	1.0	8.0	14.4	8.7	97	32.4
70/74	.0	.0	.0	.0	.0	.0	.3	.3	2	.7
TOTAL	0	0	0	10	41	92	118	38	299	100.0
PCT	.0	.0	.0	3.3	13.7	30.8	39.5	12.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.5	.1	.0	.0	1.0	1.7	.0	.0
2.7	2.1	1.9	1.6	.3	.1	3.1	1.9	.0	.0
2.2	7.6	15.8	12.6	3.7	1.5	2.7	2.4	.0	1.3
.8	3.6	10.6	13.5	2.9	.0	1.0	.0	.0	.0
.0	.2	.2	.3	.0	.0	.0	.0	.0	.0
5.6	13.5	29.0	28.2	6.9	1.6	7.8	6.0	.0	1.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	94	91	90	83	79	76	73	83.1	185
06&09	86	85	84	81	77	75	75	80.9	46
12&15	83	82	82	79	75	75	74	79.0	130
18&21	82	81	81	79	77	76	76	79.1	45
TOT	94	91	87	81	77	75	73	81.1	406

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	7.2	23.9	36.2	27.5	5.1	74	138
06&09	.0	.0	12.5	35.0	32.5	20.0	80	40
12&15	.0	.0	2.2	20.9	54.9	22.0	84	91
18&21	.0	.0	2.4	24.4	51.2	22.0	83	41
TOT	0	10	41	93	122	44	79	310

DECEMBER

PERIOD: (PRIMARY) 1933-1977
(OVER-ALL) 1873-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.4	1	.0	.4
11/13	.0	.0	.4	.0	1	.0	.4
7/8	.0	.0	.0	.4	1	.0	.4
6	.0	.0	.4	.4	2	.0	.8
5	.0	.0	.0	.8	2	.0	.8
4	.0	.0	.8	1.2	5	.0	2.0
3	.0	.0	1.6	1.6	8	.0	3.1
2	.0	.0	3.3	1.6	13	.0	5.1
1	.0	1.2	4.3	.8	16	.0	6.3
0	.4	7.8	10.9	.4	50	.4	19.1
-1	.4	10.9	8.2	.0	50	.0	19.5
-2	.4	9.0	5.9	.0	39	.0	15.2
-3	1.2	9.4	2.0	.0	32	.0	12.5
-4	.8	5.5	.0	.0	16	.0	6.3
-5	1.6	2.0	.4	.0	10	.0	3.9
-6	.4	2.0	.0	.0	6	.0	2.3
-7/-8	.4	1.2	.0	.0	4	.0	1.6
TOTAL	14	125	98	19	256	1	255
PCT	5.5	48.8	38.3	7.4	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.4
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.5	.7	.0	.0	.0	1.3
5-6	.0	.0	.5	.0	.7	.0	1.3
7	.0	.0	.0	.0	.7	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.0	1.3	.0	1.4	.0	5.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.9	5.2	1.3	.0	.0	.0	7.4
3-4	.0	1.1	2.9	.7	.0	.0	4.7
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	7.6	5.9	.7	.0	.0	15.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2
1-2	1.3	8.8	3.1	.0	.0	.0	13.1
3-4	.0	5.6	6.7	.0	.0	.0	12.2
5-6	.0	.0	4.1	1.1	.0	.0	5.2
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.7	1.3	.0	.0	2.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	16.5	15.3	2.3	.0	.0	35.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.7	6.7	3.1	.0	.0	.0	10.4
3-4	.0	.7	10.4	.0	.0	.0	11.2
5-6	.0	.2	4.1	.4	.0	.0	4.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	8.5	17.6	1.3	.0	.0	28.1

PERIOD: (OVER-ALL) 1963-1977 DECEMBER AREA 0013 FIJI ISLANDS

TABLE 18 (CONT) 17.5S 45.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.1	1.8	.0	.0	.0	4.9
3-4	.0	.5	1.6	.0	.0	.0	2.2
5-6	.0	1.3	.0	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.9	3.4	.0	.0	.0	9.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.9	.0	.0	.0	.9
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.9	.0	.0	.0	1.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	1.4	.7	.0	.0	.0	2.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.7	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.6	.0	.6
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	.7	.0	.7	.0	3.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.4	.0	.0	.0	.0	1.4	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.4	.2	.0	.0	.0	1.6	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.8	5.6	.0	.0	.0	.0	8.5	
1-2	3.5	26.8	10.6	.0	.0	.0	40.8	
3-4	.0	8.5	21.8	.7	.0	.0	31.0	
5-6	.0	1.4	9.9	1.4	.7	.0	13.4	
7	.0	.0	.7	.0	.7	.0	1.4	
8-9	.7	.0	.7	2.1	.0	.0	3.5	
10-11	.0	.0	.7	.0	.7	.0	1.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.0	42.3	44.4	4.2	2.1	.0	100.0	142

PERIOD: (OVER-ALL) 1951-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	11.2	21.2	10.6	2.4	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	4
6-7	.0	1.2	6.5	11.2	4.1	1.8	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	5
8-9	.0	1.2	.6	.0	1.8	1.8	.6	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
10-11	.0	1.2	.0	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	7	11
12-13	.0	.0	1.2	2.9	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	9	9
>13	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	2	13
INDET	1.8	.0	1.8	1.8	1.2	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	13	5
TOTAL	6	25	53	47	16	8	3	4	3	1	2	0	1	1	0	0	0	0	0	170	5
PCT	3.5	14.7	31.2	27.6	9.4	4.7	1.8	2.4	1.8	.6	1.2	.0	.6	.6	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1895-1978
(OVER-ALL) 1857-1978

AREA 0013 FIJI ISLANDS
17.5S 178.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.0	5.4	.7	.0	.0	.0	.0	13.8	1.9	2.4	.0	.0	.2		.0	81.9
NE	5.9	6.4	.9	.0	.0	.0	.0	13.3	2.6	1.5	2.3	.0	1.1		.0	79.3
E	3.1	6.2	.7	.0	.0	.0	.0	9.9	2.9	1.2	1.5	.0	.7		.1	84.1
SE	2.1	5.4	.6	.0	.0	.0	.0	8.0	2.7	.7	1.1	.0	.3		.0	87.3
S	4.6	4.5	1.6	.0	.0	.0	.1	10.8	4.3	2.0	1.0	.0	.7		.0	82.0
SW	7.2	6.4	2.2	.0	.0	.0	.0	15.8	2.1	1.6	.4	.0	.7		.0	80.6
W	5.1	3.3	.5	.0	.0	.0	.0	8.9	1.0	1.6	.6	.0	1.4		.0	87.9
NW	5.1	6.5	.5	.0	.0	.0	.0	12.2	.5	.5	.5	.0	2.3		.0	84.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.2	2.0	4.6	.0	.0	.0	.0	7.0	1.5	2.3	2.3	.0	.4		.0	86.4
TOT PCT	3.8	5.6	1.0	.0	.0	.0	*	10.4	2.6	1.2	1.2	.0	.6		*	84.3
TOT OBS:	4933															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.3	4.9	.6	.0	.0	.0	.0	8.9	1.9	.1	1.3	.0	1.0		.0	86.8
06&09	5.8	6.7	1.7	.0	.0	.0	.0	10.2	2.9	.7	.2	.0	.6		.2	85.2
12&15	4.1	6.5	1.0	.0	.0	.0	.1	13.7	2.1	3.4	2.0	.0	.2		.0	79.7
18&21	2.5	3.2	1.6	.0	.0	.0	.0	7.1	5.4	.3	.1	.0	.5		.0	86.6
TOT PCT	3.9	5.5	1.0	.0	.0	.0	*	10.4	2.5	1.2	1.2	.0	.6		*	84.3
TOT OBS:	4491															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	2.7	1.4	.1	.1	*		5.4	8.3	6.1	5.2	5.3	4.5	4.4	3.3	5.2	4.9
NE	1.7	5.5	3.0	.3	.1	.1		10.6	9.3	11.1	9.7	10.2	9.7	10.0	17.7	10.7	6.2
E	2.0	12.5	12.6	1.3	.1	.0		28.4	11.3	26.9	14.2	24.6	28.9	31.0	15.2	32.0	19.6
SE	3.4	13.1	14.3	2.1	.2	.0		33.0	11.4	30.7	12.5	39.6	39.3	33.7	5.8	32.7	15.1
S	1.2	4.7	3.0	.2	*	.0		9.2	9.6	9.2	13.9	10.0	7.1	9.4	.0	8.2	4.2
SW	.6	1.6	.7	.2	*	.0		3.1	8.8	3.6	.0	2.3	.0	3.1	.0	2.4	.7
W	.7	1.5	.9	.1	*	.0		3.2	9.1	4.8	2.1	2.1	2.0	1.8	.0	2.6	.0
NW	.9	2.2	1.0	.2	*	.0		4.3	8.3	5.5	.7	3.5	1.0	3.1	6.3	3.5	16.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0	2.0	.0	2.5	4.2	3.5	10.0	2.6	.0
TOT OBS							5464		10.4	2291	20	614	49	1837	16	614	23
TOT PCT	14.2	43.6	36.9	4.5	.6	.2		100.0		100.0	58.3	100.0	91.7	100.0	58.3	100.0	66.7

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	2.4	.4	.2	*		5.4	8.3	6.1	5.4	4.5	5.4
NE	4.2	5.1	.9	.2	.1		10.6	9.3	11.2	10.2	10.2	10.7
E	6.6	16.3	5.2	.4	.0		28.4	11.3	26.9	24.6	30.9	31.9
SE	8.6	17.3	6.5	.5	.1		33.0	11.4	30.7	39.9	33.6	32.4
S	3.3	5.0	.8	.1	*		9.2	9.6	9.3	9.5	9.4	8.2
SW	1.3	1.4	.3	*	*		3.1	8.8	3.6	2.1	3.0	2.3
W	1.3	1.4	.4	.1	.0		3.6	9.1	4.8	2.1	1.7	2.5
NW	1.9	1.7	.5	.1	.0		4.3	8.3	5.5	3.3	3.2	4.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	2.0	2.7	3.6	2.5
TOT OBS						5464		10.4	2311	663	1853	637
TOT PCT	32.5	50.6	15.1	1.6	.3		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1895-1970
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	16.7	44.0	33.7	3.1	.4	.1	9.5	100.0	2311
06&09	2.7	5.1	42.3	42.1	6.2	1.3	.2	11.8	100.0	663
12&15	3.6	9.5	44.3	37.0	5.0	.4	.2	10.5	100.0	1853
18&21	2.5	3.8	42.1	44.4	6.5	.6	.1	12.0	100.0	637
TOT								10.4		5464
PCT	2.7	11.5	43.6	36.9	4.5	.6	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.5	1.5	1.5		5.1
NE	1.9	2.2	4.1	2.6		4.9
E	5.9	7.7	11.5	5.3		4.8
SE	6.3	8.5	13.2	6.6		4.9
S	1.4	2.6	2.6	2.2		5.1
SW	.3	.5	1.1	.4		5.0
W	.3	.5	.9	.6		5.1
NW	.4	1.1	1.0	.6		4.4
VAR	.0	.0	.0	.0		.0
CALM	.8	.5	.5	.4		3.3
TOT OBS					2145	4.9
TOT PCT	17.9	25.2	36.3	20.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
*	.0	.1	.3	.8	.2	*	.0	*	.0	3.7	
*	*	.1	1.2	1.5	.7	*	.0	*	.0	7.3	
.2	*	.6	2.4	4.1	2.2	.2	*	.0	*	20.7	
*	.0	.7	3.5	5.5	2.2	.1	.1	.2	.1	22.0	
.1	.0	.3	.9	1.1	.9	.2	.0	*	*	5.3	
.0	.0	.1	.3	.5	.3	.1	.0	.0	.0	1.3	
*	.0	.1	.2	.5	.0	.1	.1	.0	.0	1.4	
.0	.0	.0	.5	.3	*	*	.0	.0	.0	2.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	*	.2	.3	.0	.1	.0	.0	.0	1.5	
											2145
.3	*	2.0	9.4	14.6	6.5	.9	.2	.3	.1	65.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
= OR >4000	.5	.7	.7	.7	.7	.7	.7	.7
= OR >3500	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >2000	6.6	7.8	8.0	8.0	8.0	8.0	8.0	8.0
= OR >1000	18.7	21.7	22.4	22.4	22.4	22.4	22.4	22.4
= OR >600	24.9	30.9	32.1	32.2	32.3	32.3	32.3	32.3
= OR >300	25.7	32.5	33.9	34.1	34.2	34.2	34.3	34.3
= OR >150	25.8	32.6	33.9	34.1	34.2	34.3	34.3	34.3
= OR > 0	25.9	32.8	34.2	34.4	34.5	34.6	34.6	34.6

TOTAL NUMBER OF OBS: 2190

PCT FREQ NH <5/8: 65.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.0	11.8	20.0	16.8	13.2	7.8	7.6	7.0	12.5 .2	2405

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	.1	*	.0	.0	.0	.0	.1	
	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	.1	*	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	*	.0	.0	.1	
	NO PCP	.0	*	.1	.1	.0	.0	.0	*	.0	.0	.2	
	TOT %	.0	*	.1	.1	.1	.0	.0	.1	.0	.0	.3	
1<2	PCP	*	.1	.1	*	.0	*	.0	.1	.0	.0	.3	
	NO PCP	.0	*	.1	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	.1	.1	.1	*	*	.0	.1	.0	.0	.5	
2<5	PCP	.2	.1	.2	.2	.1	*	.1	*	.0	*	.8	
	NO PCP	*	.1	.1	.4	.1	.0	*	*	.0	.0	.7	
	TOT %	.2	.2	.3	.5	.2	*	.1	*	.0	*	1.5	
5<10	PCP	.4	.8	1.8	1.6	.6	.2	.2	.3	.0	.1	6.0	
	NO PCP	1.1	2.2	5.8	8.9	2.4	.5	.4	.8	.0	.8	23.0	
	TOT %	1.5	3.0	7.6	10.5	3.1	.7	.6	1.0	.0	.9	29.0	
10+	PCP	.3	.5	.8	.9	.3	.1	.1	.1	.0	*	3.0	
	NO PCP	3.5	7.0	18.9	21.1	5.4	2.2	2.5	3.3	.0	1.6	65.5	
	TOT %	3.8	7.5	19.7	22.0	5.7	2.3	2.6	3.4	.0	1.6	68.5	
	TOT OBS												4327
	TOT PCT	5.5	11.0	27.8	33.2	9.0	3.1	3.2	4.6	.0	2.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	*	.0	.0	.0	.1	*	.0	.0	.0		.1	
	TOT %	*	*	*	*	.1	*	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	*	.1	.0	.0	*	.0		.1	
	11-21	.0	.0	*	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	*	.0		.1	
	TOT %	.0	*	.1	.1	.1	.0	.0	.1	.0	.0	.3	
1<2	0-3	.0	.0	*	.0	.0	*	.0	*	.0	.0	.1	
	4-10	*	.0	*	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.1	*	*	.0	.0	.0	.0		.1	
	22+	*	.1	*	*	.0	*	.0	*	.0		.2	
	TOT %	*	.1	.1	.1	*	*	.0	.1	.0	.0	.5	
2<5	0-3	.0	*	*	*	.0	*	.0	.0	.0	*	.1	
	4-10	*	*	*	.1	.1	*	.0	*	.0		.4	
	11-21	.1	.1	.1	.3	.1	.0	*	*	.0		.7	
	22+	*	.1	*	.1	*	*	*	*	.0		.4	
	TOT %	.2	.2	.3	.5	.2	.1	.1	*	.0	*	1.6	
5<10	0-3	.4	.7	.8	1.9	.7	.1	.1	.2	.0	.9	5.9	
	4-10	.6	1.3	3.0	4.6	1.5	.4	.3	.5	.0		12.3	
	11-21	.3	.9	3.4	3.5	.7	.2	.2	.2	.0		9.4	
	22+	.2	.1	.4	.5	.1	*	.0	.2	.0		1.5	
	TOT %	1.5	3.1	7.7	10.5	3.0	.7	.6	1.0	.0	.9	29.0	
10+	0-3	.6	1.0	1.2	1.6	.6	.4	.6	.7	.0	1.6	8.4	
	4-10	2.0	4.1	8.7	7.8	2.8	1.2	1.2	1.8	.0		29.7	
	11-21	1.1	2.2	8.8	10.9	2.2	.5	.7	.8	.0		27.2	
	22+	.1	.2	.9	1.6	.1	.1	.1	.1	.0		3.2	
	TOT %	3.8	7.5	19.7	22.0	5.7	2.2	2.6	3.3	.0	1.6	68.4	
	TOT OBS												4359
	TOT PCT	5.5	11.0	27.8	33.2	9.1	3.1	3.2	4.5	.0	2.6	100.0	

PERIOD: (PRIMARY) 1895-1978
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.0	1.3	8.6	12.1	4.6	.7	.4	.1	.0	28.0	72.0	621
06&09	.1	.0	1.5	11.1	13.6	7.0	1.1	.0	.0	.0	34.5	65.5	549
12&15	.7	.1	1.1	8.6	13.6	7.6	1.2	.2	1.0	.6	34.8	65.2	598
18&21	.0	.0	3.9	9.4	15.4	5.1	.1	.4	.1	.0	34.5	65.5	550
TOT PCT	.3	*	1.9	9.3	13.7	6.1	.8	.2	.3	.1	32.8	67.2	2318 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.5	.4	1.0	30.1	67.8	1840
06&09	.3	.0	.8	4.2	11.4	83.3	577
12&15	.0	.4	.6	1.1	43.2	54.7	1517
18&21	.1	.4	.3	1.7	10.4	87.1	586
TOT PCT	.2	.4	.5	1.6	29.7	67.7	4520 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	1.6	11.8	19.8	68.4	568
06&09	.2	1.8	16.2	20.3	63.4	533
12&15	.8	2.3	12.4	25.1	62.5	556
18&21	.0	4.0	14.3	21.2	64.5	533
TOT PCT	.3	2.4	13.5	21.7	64.8	2190 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
100/104	.0	.0	.0	.0	.0	*	.0	.0		*
95/99	.0	.0	.1	.1	.0	*	.1	.0		.2
90/94	.0	.0	*	.4	.4	.1	.2	.1		1.3
85/89	.0	.0	.1	.4	1.8	3.6	1.5	.6		7.9
80/84	.0	.0	.1	.3	3.6	13.3	17.1	4.5		39.0
75/79	.0	.0	.1	.5	3.6	13.1	16.9	9.7		43.9
70/74	.0	.0	.0	.3	1.2	1.9	2.3	1.6		7.2
65/69	.0	.0	.0	.0	*	.1	.1	.1		.2
60/64	.0	.0	.0	.0	.1	.0	.1	.0		.2
TOTAL PCT	.0	.0	.3	1.9	10.8	32.0	38.3	16.7	3668	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
	.0	.0	*	.1	*	.0	*	.0	.0	*
	.1	.1	.2	.3	*	.1	.1	.3	.0	.1
	.9	1.3	1.7	1.3	.4	.3	1.0	.7	.0	.3
	2.8	4.9	11.7	10.1	3.0	1.3	1.4	2.5	.0	1.2
	1.3	4.0	14.1	16.5	4.2	1.3	.7	.9	.0	1.0
	.1	.2	1.3	3.9	1.2	.3	.1	*	.0	.1
	*	*	.0	.1	.1	.0	.0	.0	.0	.0
	.0	.0	*	.1	.0	.0	.0	.0	.0	.0
	5.3	10.5	29.2	32.5	8.9	3.1	3.3	4.4	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	102	90	88	81	76	73	63	81.2	2338
06&09	93	84	83	79	76	73	67	79.5	659
12&15	87	82	81	78	75	72	64	77.7	1901
18&21	86	82	81	78	75	72	61	78.4	636
TOT	102	89	85	79	75	72	61	79.5	5534

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.2	15.9	37.9	27.7	14.3	78	1424
06&09	.0	1.1	10.3	28.6	44.5	15.5	81	584
12&15	.0	.9	6.8	27.2	46.5	18.7	82	1188
18&21	.0	1.1	6.3	29.5	42.7	20.3	82	572
TOT	0	86	402	1197	1453	630	80	3768

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/18	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	*	.1	.1	.0	8	.0	.2
11/13	.0	.0	.0	.0	.0	*	*	.1	.1	7	.0	.2
9/10	.0	.0	.0	.0	.1	.1	.1	*	.0	8	.0	.3
7/8	.0	.0	.0	.0	.1	*	.4	.2	.0	23	.0	.7
6	.0	.0	.0	*	.1	.2	.2	.1	.0	24	.0	.7
5	.0	.0	.0	*	.1	.3	.4	.1	.0	33	.0	.9
4	.0	.0	.0	.1	.3	.5	.4	.1	.0	51	.0	1.4
3	.0	.0	.0	.1	.5	1.3	.9	.1	.0	98	.1	2.7
2	.0	.0	.1	.2	1.0	1.9	1.3	.0	.0	151	.1	4.3
1	.0	.0	*	.2	2.9	3.4	.6	*	.0	250	.1	7.0
0	.0	.0	*	1.5	6.7	5.9	.5	*	.0	496	.3	14.2
-1	.0	.0	*	2.9	9.4	5.8	.2	*	.0	637	.4	18.1
-2	.0	.0	.2	3.1	6.7	4.9	*	.0	.0	515	.3	14.7
-3	.0	.0	.5	4.0	6.0	2.2	*	.0	.0	440	.2	12.6
-4	.0	.0	.5	2.5	3.7	1.5	.0	.0	.0	279	.0	8.1
-5	.0	*	.2	2.5	3.2	.5	*	.0	.0	222	*	6.4
-6	*	*	.2	1.2	1.5	.2	.0	.0	.0	107	.0	3.1
-7/-8	.1	.1	.2	1.0	.7	.1	.0	.0	.0	72	.0	2.1
-9/-10	.0	*	.2	.3	.1	.0	.0	.0	.0	24	.0	.7
-11/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL										3447		
PCT	.1	.1	2.3	19.5	43.0	29.0	5.1	.9	.1	100.0	1.5	98.5

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.2	1.5	.5	.0	.0	.0	2.1
3-4	.0	.5	.8	.0	.0	.0	1.3
5-6	.0	.0	.3	.0	.1	.0	.4
7	.0	.0	.2	*	.1	.0	.3
8-9	.0	.0	.0	.1	*	.0	.1
10-11	.0	.0	.0	.1	.0	*	.1
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.2	1.8	.2	.2	*	4.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	*	.0	.0	.0	1.1
1-2	.3	3.6	1.0	.0	.0	.0	4.8
3-4	.1	1.2	1.8	.1	.0	.0	3.1
5-6	.0	.3	.8	*	.0	.0	1.2
7	.0	.1	.2	.2	*	.0	.5
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	*	*	.0	.2
12	.0	.0	.0	*	.0	*	.1
13-16	.0	.0	.0	*	*	*	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.9	4.1	.6	.1	.1	11.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.7	.1	.0	.0	.0	2.2
1-2	.4	6.5	2.7	.0	.0	.0	9.6
3-4	.0	3.8	6.1	.1	.0	.0	10.0
5-6	.0	.7	4.4	.5	.0	.0	5.7
7	.0	.0	2.1	.5	.0	.0	2.6
8-9	.0	.1	.5	.3	.0	.0	.9
10-11	.0	.0	*	.2	.0	.0	.2
12	.0	.0	.1	.2	.0	.0	.2
13-16	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	12.9	16.0	1.8	.0	.0	31.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	*	.0	.0	.0	1.1
1-2	.4	5.2	2.8	.0	.0	.0	8.4
3-4	.1	3.0	7.8	.2	.0	.0	11.1
5-6	.1	.5	6.2	.9	.0	.0	7.6
7	.0	.2	2.1	.7	*	.0	3.0
8-9	.1	*	.6	.8	.0	.0	1.5
10-11	.0	.0	.1	.2	.0	.0	.4
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	9.5	19.6	3.1	.1	.0	33.4

PERIOD: (OVER-ALL) 1963-1978 ANNUAL AREA 0019 FIJI ISLANDS

TABLE 18 (CONT) 17.5S 58.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.1	.0	.0	.0	.8
1-2	.1	2.4	.7	.0	.0	.0	3.2
3-4	.0	1.2	1.6	.1	.0	.0	2.9
5-6	.0	.1	.9	.1	.0	.0	1.1
7	*	.0	.3	.0	.0	.0	.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	*	.0	.0	*
12	.0	*	.0	*	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	*	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.3	3.8	.3	.0	.0	8.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.2
1-2	.1	.8	.2	.0	.0	.0	1.1
3-4	.0	.3	.3	.0	.0	.0	.6
5-6	.0	.0	.2	.1	.0	.0	.3
7	*	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.1	*	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.3	.8	.2	*	.0	2.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.0	.0	.0	.0	.2
1-2	.0	.5	.3	.0	.0	.0	.8
3-4	.0	.2	.5	.0	.0	.0	.6
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.1	*	.0	.0	.1
8-9	.0	.0	.0	.0	*	.0	*
10-11	.0	.0	.1	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.8	1.1	*	.1	.0	2.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.2	.0	.0	.0	.0	.4	
1-2	.1	.6	.2	.0	.0	.0	1.0	
3-4	.0	.6	.5	.0	.0	.0	1.1	
5-6	.0	.0	.3	*	.0	.0	.4	
7	.0	*	.1	*	.0	.0	.2	
8-9	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	*	.0	.0	*	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.6	1.1	.3	*	.0	3.3	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	4.5	.3	.0	.0	.0	9.1	
1-2	2.0	21.1	8.1	.0	.0	.0	31.2	
3-4	.1	10.6	19.0	.6	.0	.0	30.3	
5-6	.1	1.6	13.3	1.8	.1	.0	16.8	
7	.1	.3	5.3	1.5	.1	.0	7.2	
8-9	.1	.1	1.2	1.6	.1	.0	3.1	
10-11	.0	.0	.3	.5	.1	*	1.0	
12	.0	.1	.1	.3	.1	*	.6	
13-16	.0	.1	.1	.3	.1	*	.5	
17-19	.0	.0	*	.0	.0	.0	*	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.8	38.3	47.7	6.6	.6	.1	100.0	1759

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	8.8	14.7	8.4	4.4	1.5	.5	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	847	4
6-7	.0	1.7	7.3	8.5	5.1	2.9	1.1	.4	.8	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	570	6
8-9	.0	.6	1.8	2.8	3.5	1.9	1.3	.5	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	273	7
10-11	.0	.6	.6	.8	.9	.5	.4	.3	.1	.1	*	.0	.0	*	.0	*	.0	.0	.0	92	7
12-13	.0	.0	.9	.8	.5	.3	.1	.1	*	.3	*	.0	*	.0	.0	.0	.0	.0	.0	62	7
>13	.0	.0	.0	.4	.5	.2	.1	.1	.1	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	30	9
INDET	2.2	.3	1.5	1.1	1.2	.4	.6	.1	.4	*	*	.0	.0	.0	.0	.0	.0	.0	.0	168	4
TOTAL PCT	4.0	12.1	26.9	23.4	15.9	7.8	4.2	1.9	2.4	.6	.4	.2	*	*	.0	*	.0	.0	.0	2042 100.0	5

PERIOD: (PRIMARY) 1895-1970
(OVER-ALL) 1857-1970

AREA 0013 FIJI ISLANDS
17.5S 58.7E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.2	.5	.0	.3	.0	.0	.0	.0	.3	.5	.3	.0	8	.2
87/88	1.9	3.0	1.8	1.5	.3	.0	.0	.0	1.1	.0	.5	.3	39	.9
85/86	11.7	17.5	19.0	9.0	3.3	1.7	.0	.2	.9	.5	1.8	4.6	254	5.7
83/84	42.3	38.9	45.6	34.4	16.8	5.1	.7	.9	1.4	3.0	7.8	23.9	796	18.0
81/82	33.6	29.6	28.5	40.2	40.8	21.4	10.3	8.5	12.9	17.8	23.5	37.9	1095	24.7
79/80	8.7	8.2	3.9	12.0	29.9	37.1	32.5	24.5	24.7	34.7	38.8	26.6	1040	23.5
77/78	1.5	1.6	.7	1.5	7.2	27.7	36.0	37.2	30.7	28.7	19.4	4.6	757	17.1
75/76	.0	.7	.4	1.2	1.0	6.0	16.1	22.9	20.4	11.5	4.9	1.2	336	7.6
73/74	.0	.0	.0	.0	.7	.6	3.3	4.2	4.9	1.7	1.8	.6	68	1.5
71/72	.0	.0	.0	.0	.0	.3	.7	.9	2.0	1.4	.8	.3	24	.5
69/70	.0	.0	.0	.0	.0	.0	.4	.7	.6	.3	.6	.0	10	.2
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	428	429	284	343	304	350	428	433	348	396	387	327	4427	100.0
MEAN	82.6	82.9	83.1	82.2	81.0	79.4	78.1	77.7	78.0	78.7	79.6	81.2	80.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007	1007	1007	1009	1008	1008	1007	1009	1007	496
FEB	1008	997	1008	1006	1009	1003	1008	1007	1008	478
MAR	1009		1008	1011	1010	1010	1009	1011	1009	335
APR	1011	1009	1009	1009	1011	1008	1010	1009	1010	352
MAY	1012	1011	1012	1013	1013	1013	1012	1014	1012	303
JUN	1013		1013	1017	1014	1016	1012	1013	1013	355
JUL	1013		1013	1014	1013		1013	1015	1013	453
AUG	1015		1013	1017	1015		1014		1014	385
SEP	1015	1014	1013	1016	1014		1014		1014	352
OCT	1013	1009	1013	1014	1014	1013	1013	1014	1013	351
NOV	1011	1011	1010		1011		1011	1010	1011	372
DEC	1009		1008	1012	1010		1008		1009	381
ANN	1011	1008	1011	1013	1012	1010	1011	1011	1011	4613
OBS	1781	21	615	52	1488	16	616	24		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	992	997	1001	1006	1008	1010	1012	1014	1016
FEB	993	994	1000	1006	1009	1011	1013	1016	1019
MAR	1000	1001	1004	1008	1010	1011	1013	1015	1020
APR	995	1000	1005	1009	1011	1012	1014	1019	1021
MAY	1005	1006	1008	1011	1012	1014	1016	1017	1018
JUN	1000	1000	1007	1012	1013	1015	1017	1020	1022
JUL	1002	1003	1008	1012	1014	1015	1018	1019	1022
AUG	1008	1009	1010	1013	1015	1016	1018	1023	1025
SEP	1002	1008	1010	1013	1014	1016	1018	1020	1024
OCT	1007	1007	1010	1012	1013	1015	1017	1018	1022
NOV	1002	1004	1006	1009	1011	1013	1015	1018	1019
DEC	993	1000	1004	1008	1009	1011	1013	1016	1018

JANUARY

PERIOD: (PRIMARY) 1952-1978
(OVER-ALL) 1888-1978

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT Ob TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWC	DUST SNOW	NO SIG WEA
N	.0	9.1	.0	.0	.0	.0	.0	9.1	18.2	.0	.0	.0	.0	.0	.0	72.7
NE	28.8	.0	.0	.0	.0	.0	.0	28.8	.0	1.4	.0	.0	.0	.0	.0	69.9
E	12.0	4.7	.0	.0	.0	.0	.0	14.7	.0	4.0	.0	.0	.0	.0	.0	83.3
SE	3.8	3.0	.0	.0	.0	.0	.0	6.8	3.0	.0	.0	.0	3.0	.0	.0	87.1
S	10.0	.0	10.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	80.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
W	.0	.0	.0	.0	.0	.0	.0	.0	50.0	28.6	.0	.0	.0	.0	.0	21.4
NW	.0	6.3	.0	.0	.0	.0	.0	6.3	12.5	.0	.0	.0	.0	.0	.0	81.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	40.0	.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	20.0	.0	.0	40.0
TOT PCT	11.6	2.5	.8	.0	.0	.0	.0	14.9	4.1	1.7	.0	.0	1.7	.0	.0	77.7
TOT OBS:	121															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWC	DUST SNOW	NO SIG WEA
00-03	2.6	4.6	.0	.0	.0	.0	.0	5.3	7.9	.0	.0	.0	.0		.0	86.8
06-09	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	3.3		.0	80.0
12-15	11.8	2.9	.0	.0	.0	.0	.0	14.7	.0	5.9	.0	.0	2.9		.0	76.5
18-21	17.4	4.3	4.3	.0	.0	.0	.0	26.1	8.7	.0	.0	.0	.0		.0	65.2
TOT PCT	11.2	2.4	.8	.0	.0	.0	.0	14.4	4.0	1.6	.0	.0	1.6		.0	78.4
TOT OBS:	125															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	4.0	2.9	.0	.0	.0		7.4	10.0	5.8	.0	9.7	.0	10.1	.0	4.2	.0
NE	.7	6.3	6.9	.7	.0	.0		14.7	11.5	22.1	.0	10.5	.0	14.9	.0	8.3	.0
E	.9	13.8	12.3	1.1	.7	.0		28.8	12.6	27.3	.0	25.8	100.0	33.1	.0	24.0	.0
SE	1.3	10.1	14.9	2.5	1.4	.0		30.3	14.1	34.9	100.0	41.9	.0	20.3	.0	21.9	.0
S	.7	3.8	2.2	.5	.0	.0		7.2	9.4	3.5	.0	5.6	.0	7.4	.0	16.7	.0
SW	.0	.9	.0	.2	.0	.0		1.1	9.3	1.2	.0	3.2	.0	.0	.0	.0	.0
W	.0	2.5	.0	.0	.0	.0		2.5	7.7	3.5	.0	.0	.0	2.7	.0	4.2	.0
NW	.2	2.0	1.4	.0	.0	.0		3.6	9.2	1.7	.0	.0	.0	3.4	.0	12.5	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0	.0	.0	3.2	.0	8.1	.0	8.3	.0
TOT OBS	12	60	56	7	3	0	138		11.6	43	1	31	2	37	0	24	0
TOT PCT	8.7	43.5	40.6	5.1	2.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.0	4.0	1.4	.0	.0		7.4	10.0	5.7	9.1	10.1	4.2
NE	2.9	10.1	1.6	.0	.0		14.7	11.5	21.6	9.8	14.9	8.3
E	5.1	16.5	6.2	1.1	.0		28.8	12.6	26.7	30.3	33.1	24.0
SE	2.7	19.0	6.7	1.8	.0		30.3	14.1	36.4	39.4	20.3	21.9
S	3.8	2.9	.5	.0	.0		7.2	9.4	3.4	5.3	7.4	16.7
SW	.7	.2	.2	.0	.0		1.1	9.3	1.1	3.0	.0	.0
W	.7	1.8	.0	.0	.0		2.5	7.7	3.4	.0	2.7	4.2
NW	.9	2.7	.0	.0	.0		3.6	9.2	1.7	.0	3.4	12.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.3						4.3	.0	.0	3.0	8.1	8.3
TOT OBS	32	79	23	4	0	138		11.6	44	33	37	24
TOT PCT	23.2	57.2	16.7	2.9	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	2.3	45.5	40.9	9.1	2.3	.0	13.0	100.0	44
06&09	3.0	6.1	42.4	39.4	6.1	3.0	.0	11.9	100.0	33
12&15	8.1	5.4	43.2	40.5	2.7	.0	.0	10.5	100.0	37
18&21	8.3	4.2	41.7	41.7	.0	4.2	.0	10.5	100.0	24
TOT	6	6	60	56	7	3	0	11.6		138
PCT	4.3	4.3	43.5	40.6	5.1	2.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.9	3.1	1.9		5.7
NE	2.1	3.8	4.0	6.1		5.7
E	6.4	5.2	9.9	8.7		5.2
SE	3.8	7.5	9.7	6.1		5.0
S	.9	5.2	1.7	1.7		4.3
SW	.0	.2	1.2	.0		4.8
W	.0	.7	.9	.9		6.5
NW	.0	.0	.7	1.9		7.7
VAR	.0	.0	.0	.0		.0
CALM	1.9	.0	1.9	.0		3.7
TOT OBS	17	25	35	29	106	5.2
TOT PCT	16.0	23.6	33.0	27.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.7	.9	.0	.0	.0	.0	.0	5.2	
NE	.2	.0	.0	.0	2.8	.9	.0	.0	.0	.0	12.0	
E	.7	.0	.9	3.8	.0	1.9	1.9	.0	.0	.0	21.0	
SE	.0	.0	.9	.9	.9	.9	2.1	.0	.0	.0	21.2	
S	.0	.0	.0	.9	1.7	.0	.7	.0	.0	.0	6.1	
SW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
NW	.0	.0	.0	1.2	.0	.9	.0	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	2.8	
TOT OBS	1	0	2	8	8	5	5	0	0	0	77	106
TOT PCT	.9	.0	1.9	7.9	7.5	4.7	4.7	.0	.0	.0	72.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	2.8	4.6	4.6	4.6	4.6	4.6	4.6	4.6
* OR >2000	6.4	9.2	9.2	9.2	9.2	9.2	9.2	9.2
* OR >1000	11.9	16.5	16.5	16.5	17.4	17.4	17.4	17.4
* OR >600	17.4	23.9	23.9	23.9	24.8	24.8	24.8	24.8
* OR >300	17.4	25.7	25.7	25.7	26.6	26.6	26.6	26.6
* OR >150	17.4	25.7	25.7	25.7	26.6	26.6	26.6	26.6
* OR > 0	17.4	26.6	26.6	26.6	27.5	27.5	27.5	27.5
TOTAL	19	29	29	29	30	30	30	30

TOTAL NUMBER OF OBS: 109 PCT FREQ NH <5/8: 72.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.1	9.7	15.0	19.5	21.2	2.7	5.3	7.1	11.5	.9	113

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	
1<2	PCP	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
2<5	PCP	.0	.0	.6	.2	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.2	.6	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.6	.4	.6	.0	.0	.0	.0	.0	1.7	
5<10	PCP	.0	.2	2.3	.8	.8	.0	.0	.0	.0	.8	5.0	
	NO PCP	.0	.8	.8	4.5	1.2	.0	.0	.0	.0	.0	7.4	
	TOT %	.0	1.0	3.1	5.4	2.1	.0	.0	.0	.0	.8	12.4	
10+	PCP	.6	3.3	1.7	.0	.8	.0	.0	.2	.0	.8	7.4	
	NO PCP	6.2	9.9	25.6	20.7	4.8	1.2	2.9	3.1	.0	2.5	76.9	
	TOT %	6.8	13.2	27.3	20.7	5.6	1.2	2.9	3.3	.0	3.3	84.3	
	TOT OBS												121
	TOT PCT	6.8	15.1	31.0	27.3	8.3	1.2	2.9	3.3	.0	4.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.8	.0	.0	.0	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.8	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.6	.0	.0	.0	.0		.8	
	11-21	.0	.0	.6	.2	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.6	.4	.6	.0	.0	.0	.0	.0	1.7	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
	4-10	.0	.0	1.7	1.2	1.2	.0	.0	.0	.0		4.1	
	11-21	.0	.2	.6	2.5	.8	.0	.0	.0	.0		4.1	
	22+	.0	.8	.8	1.7	.0	.0	.0	.0	.0		3.3	
	TOT %	.0	1.0	3.1	5.4	2.1	.0	.0	.0	.0	.8	12.4	
10+	0-3	.6	.8	.4	1.2	.8	.0	.0	.2	.0	3.3	7.4	
	4-10	3.7	5.6	14.0	7.6	2.5	1.0	2.9	2.3	.0		39.7	
	11-21	2.5	6.8	12.0	9.3	1.7	.0	.0	.8	.0		33.1	
	22+	.0	.0	.8	2.5	.6	.2	.0	.0	.0		4.1	
	TOT %	6.8	13.2	27.3	20.7	5.6	1.2	2.9	3.3	.0	3.3	84.3	
	TOT OBS												121
	TOT PCT	6.8	15.1	31.0	27.3	8.3	1.2	2.9	3.3	.0	4.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.9	5.9	11.8	8.8	5.9	.0	.0	.0	35.3	64.7	34
06&09	4.0	.0	.0	8.0	4.0	.0	4.0	.0	.0	.0	20.0	80.0	25
12&15	.0	.0	.0	9.4	3.1	3.1	6.3	.0	.0	.0	21.9	78.1	32
18&21	.0	.0	4.8	4.8	14.3	4.8	.0	.0	.0	.0	28.6	71.4	21
TOT	1	0	2	8	9	5	5	0	0	0	30	82	112
PCT	.9	.0	1.8	7.1	8.0	4.5	4.5	.0	.0	.0	26.8	73.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	15.8	84.2	38
06&09	.0	.0	3.3	6.7	16.7	73.3	30
12&15	.0	.0	.0	.0	5.9	94.1	34
18&21	.0	4.2	.0	.0	12.5	83.3	24
TOT	0	1	1	2	16	106	126
PCT	.0	.8	.8	1.6	12.7	84.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.9	8.8	26.5	64.7	34
06&09	4.2	4.2	20.8	8.3	70.8	24
12&15	.0	.0	9.7	12.9	77.4	31
18&21	.0	10.0	15.0	15.0	70.0	20
TOT	1	4	14	18	77	109
PCT	.9	3.7	12.8	16.5	70.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.7	5.0	1.7	.0	10	8.3
80/84	.0	.0	.0	.0	.8	12.5	28.3	3.3	54	45.0
75/79	.0	.0	.0	.0	1.7	10.8	19.2	13.3	54	45.0
70/74	.0	.0	.0	.0	.0	.0	.8	.8	2	1.7
TOTAL	0	0	0	0	5	34	60	21	120	100.0
PCT	.0	.0	.0	.0	4.2	28.3	50.0	17.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.8	1.9	3.8	1.0	.8	.0	.0	.0	.0	.0
5.2	7.1	12.3	12.3	1.5	1.3	2.1	3.3	.0	.0
1.7	6.3	12.5	14.4	6.0	.0	.8	.8	.0	2.5
.0	.0	.0	.8	.0	.0	.0	.0	.0	.8
7.7	15.2	28.5	28.5	8.3	1.3	2.9	4.2	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	86	86	82	77	74	74	81.5	46
06&09	85	84	84	80	76	76	76	80.0	32
12&15	82	81	81	78	75	74	74	78.7	39
18&21	84	83	82	78	76	75	75	78.7	25
TOT	87	86	85	80	76	74	74	79.9	142

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	5.4	43.2	43.2	8.1	80	37
06&09	.0	.0	10.0	26.7	46.7	16.7	81	30
12&15	.0	.0	.0	27.3	51.5	21.2	85	33
18&21	.0	.0	.0	8.3	62.5	29.2	87	24
TOT	0	0	5	35	62	22	83	124

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1888-1976

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.9	1	.0	.9
7/8	.0	.0	.9	.0	1	.0	.9
5	.0	.0	.9	1.8	3	.0	2.7
4	.0	.0	.9	.9	2	.0	1.8
3	.0	.9	1.8	.9	4	.0	3.5
2	.0	.9	5.3	1.8	9	.0	8.0
1	.0	4.4	2.7	.9	9	.0	8.0
0	.0	8.8	8.0	.9	20	.0	17.7
-1	.9	8.0	2.7	.0	13	.0	11.5
-2	.0	9.7	5.3	.0	17	.0	15.0
-3	.9	6.2	3.5	.0	12	.0	10.6
-4	2.7	6.2	1.8	.0	12	.0	10.6
-5	.9	2.7	.0	.0	4	.0	3.5
-6	.9	2.7	.0	.0	4	.0	3.5
-7/-8	.9	.9	.0	.0	2	.0	1.8
TOTAL	8	58	38	9	113	0	113
PCT	7.1	51.3	33.6	8.0	100.0		100.0

PERIOD: (OVER-ALL) 1968-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	1.1	2.6	.0	.0	.0	.0	3.7
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.1	1.5	.0	.0	.0	6.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.9	3.0	.0	.0	.0	7.8
3-4	.0	3.4	1.9	.0	.0	.0	5.2
5-6	.0	.0	3.0	.0	.0	.0	3.0
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.2	9.3	.0	.0	.0	17.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	10.1	.0	.0	.0	.0	10.1
3-4	.0	6.3	7.1	.0	.0	.0	13.4
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	1.5	1.1	.0	.0	.0	2.6
8-9	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	1.5	.0	.0	.0	.0	1.5
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	19.4	10.8	.0	.0	.0	30.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.0	3.0	.0	.0	.0	6.0
3-4	.0	2.2	6.0	.0	.0	.0	8.2
5-6	.0	1.5	1.5	.0	.0	.0	3.0
7	.0	.0	1.9	1.5	.0	.0	3.4
8-9	.0	.0	.4	.0	1.5	.0	1.9
10-11	.0	.0	.0	3.0	.0	.0	3.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	12.7	4.5	1.5	.0	25.7

PERIOD: (OVER-ALL) 1963-1978

JANUARY

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	1.1	.0	.0	.0	.0	2.6
1-2	.0	4.5	.0	.0	.0	.0	4.5
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.6	3.0	1.1	.0	.0	11.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.0	.4	.0	.0	1.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	.0	.0	.0	.0	3.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.4	.4	.0	.0	.0	.0	.7	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	.4	.0	.0	.0	.0	.7	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.9	2.9	.0	.0	.0	.0	8.8	
1-2	1.5	29.4	5.9	.0	.0	.0	36.8	
3-4	.0	11.8	17.6	.0	.0	.0	29.4	
5-6	.0	1.5	7.4	.0	.0	.0	8.8	
7	.0	1.5	4.4	1.5	.0	.0	7.4	
8-9	.0	.0	1.5	1.5	1.5	.0	4.4	
10-11	.0	.0	.0	2.9	.0	.0	2.9	
12	.0	1.5	.0	.0	.0	.0	1.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								68
TOT PCT	7.4	48.5	36.8	5.9	1.5	.0	100.0	

PERIOD: (OVER-ALL) 1950-1978

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.4	8.0	8.0	4.5	3.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	3
6-7	.0	1.1	1.1	12.5	5.7	.0	2.3	1.1	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	7
8-9	.0	.0	3.4	4.5	3.4	3.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	6
10-11	.0	.0	3.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
12-13	.0	.0	.0	3.4	.0	1.1	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
>13	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	2.3	.0	1.1	6.8	2.3	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
TOTAL	5	8	15	28	15	7	4	1	3	2	0	0	0	0	0	0	0	0	0	88	6
PCT	5.7	9.1	17.0	31.8	17.0	8.0	4.5	1.1	3.4	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1963-1978
(OVER-ALL) 1880-1978

AREA 0014 TONGA ISLANDS GROUP
20.2S 174.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	22.5	10.0	.0	.0	.0	.0	.0	32.5	7.5	.0	.0	.0	.0		.0	60.0
NE	6.2	12.3	.0	.0	.0	.0	.0	18.5	1.9	.0	.0	.0	.0		.0	80.0
E	8.2	.0	3.0	.0	.0	.0	.0	11.2	8.2	.0	.0	.0	.0		.0	80.6
SE	4.1	3.3	.0	.0	.0	.0	.0	7.3	.8	.8	.0	.0	.0		.0	91.1
S	.0	.0	.0	.0	.0	.0	.0	.0	23.3	10.0	.0	.0	.0		.0	76.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	9.4	.0	.0	.0	.0	.0	.0	9.4	.0	.0	.0	.0	.0		.0	90.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	7.1	3.6	.9	.0	.0	.0	.0	11.6	4.8	.9	.0	.0	.0		.0	83.0
TOT OBS	112															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	5.0	5.0	.0	.0	.0	.0	.0	10.0	7.5	.0	.0	.0	.0		.0	82.5
06&09	11.1	3.7	3.7	.0	.0	.0	.0	18.5	3.7	.0	.0	.0	.0		.0	77.8
12&15	.0	13.0	.0	.0	.0	.0	.0	13.0	4.3	4.3	.0	.0	.0		.0	78.3
18&21	10.3	.0	.0	.0	.0	.0	.0	10.3	6.9	.0	.0	.0	.0		.0	82.8
TOT PCT	6.7	5.0	.8	.0	.0	.0	.0	12.6	5.9	.8	.0	.0	.0		.0	80.7
TOT OBS:	119															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	5.5	3.8	.0	.0	.0		10.6	9.9	14.5	75.0	13.9	87.5	4.0	.0	.0	.0
NE	.2	7.1	5.1	.7	.0	.0		13.1	11.3	12.0	.0	3.7	.0	26.0	.0	11.3	100.0
E	.0	15.0	14.4	1.5	.0	.0		30.8	12.3	37.5	.0	31.5	.0	12.0	.0	38.7	.0
SE	.7	13.1	9.9	4.4	.0	.0		28.1	13.3	21.5	.0	20.4	.0	35.0	.0	43.5	.0
S	.0	3.5	2.0	.0	.0	.0		5.5	9.8	3.5	.0	7.4	.0	11.0	.0	3.2	.0
SW	.0	.2	.0	.0	.0	.0		.2	8.0	.5	.0	.0	.0	.0	.0	.0	.0
W	.0	1.5	1.3	.0	.0	.0		2.7	10.1	1.5	.0	7.4	.0	4.0	.0	.0	.0
NW	.0	3.8	2.2	.7	.0	.0		6.8	12.1	5.0	25.0	15.7	12.5	4.0	.0	3.2	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0	4.0	.0	.0	.0	4.0	.0	.0	.0
TOT OBS	6	68	53	10	0	0	137		11.7	80	1	27	2	25	0	31	1
TOT PCT	4.4	49.6	38.7	7.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	6.6	1.5	.0	.0		10.6	9.9	15.7	19.0	4.0	.0
NE	1.6	10.8	.7	.0	.0		13.1	11.3	11.8	3.4	26.0	14.1
E	5.1	18.6	7.1	.0	.0		30.8	12.3	36.8	29.3	12.0	37.5
SE	3.6	14.8	8.9	.7	.0		28.1	13.3	21.1	19.0	35.0	42.2
S	.7	4.0	.7	.0	.0		5.5	9.8	3.4	6.9	11.0	3.1
SW	.0	.2	.0	.0	.0		.2	8.0	.5	.0	.0	.0
W	.7	2.0	.0	.0	.0		2.7	10.1	1.5	6.9	4.0	.0
NW	1.6	3.6	.7	.7	.0		6.8	12.1	5.4	15.5	4.0	3.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	3.9	.0	4.0	.0
TOT OBS	25	83	27	2	0	137		11.7	81	29	25	32
TOT PCT	18.2	60.6	19.7	1.5	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1953-1978
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.9	2.0	47.1	41.2	5.9	.0	.0	11.6	100.0	51
06&09	.0	.0	51.7	44.8	3.4	.0	.0	11.3	100.0	29
12&15	4.0	4.0	40.0	48.0	4.0	.0	.0	11.5	100.0	25
18&21	.0	3.1	59.4	21.9	15.6	.0	.0	12.3	100.0	32
TOT	3	3	68	53	10	0	0	11.7		137
PCT	2.2	2.2	49.6	38.7	7.3	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.8	.0	.0	5.9		6.6
NE	.0	2.0	4.6	3.9		6.3
E	2.8	9.4	16.1	4.3		5.0
SE	4.3	4.8	16.1	4.3		5.3
S	1.8	.0	3.1	1.0		5.1
SW	.3	.0	.0	.0		2.0
W	1.0	.0	1.0	1.0		5.0
NW	.3	1.0	2.0	3.1		6.4
VAR	.0	.0	.0	.0		.0
CALM	.0	1.0	1.0	.0		5.0
TOT OBS	12	18	43	25	98	5.5
TOT PCT	12.2	18.4	43.9	25.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	2.6	.8	2.6	.0	.0	.0	.0	.0	1.8	
NE	.0	.0	.0	4.3	2.0	.0	1.0	.0	.0	.0	5.1	
E	.0	.0	1.0	3.4	6.9	5.1	.0	.0	.0	.0	17.1	
SE	.0	.0	.0	3.6	5.4	2.0	.0	.0	.0	.0	18.6	
S	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	3.8	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	2.0	
NW	.0	.0	.5	1.0	1.5	.0	1.0	.0	.0	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	0	0	4	12	19	7	3	0	0	1	52	98
TOT PCT	.0	.0	4.1	12.2	19.4	7.1	3.1	.0	.0	1.0	53.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
* OR >2000	9.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
* OR >1000	25.0	28.8	29.8	29.8	29.8	29.8	29.8	29.8
* OR >400	35.6	41.3	42.3	42.3	42.3	42.3	42.3	42.3
* OR >300	39.4	46.2	48.1	48.1	48.1	48.1	48.1	48.1
* OR >150	39.4	46.2	48.1	48.1	48.1	48.1	48.1	48.1
* OR > 0	39.4	46.2	48.1	48.1	48.1	48.1	48.1	48.1
TOTAL	41	48	50	50	50	50	50	50

TOTAL NUMBER OF OBS: 104

PCT FREQ NH <5/8: 51.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.9	10.1	13.8	16.5	10.1	10.1	12.8	6.4	19.3	.0	109

PERIOD: (PRIMARY) 1953-1978
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9	
	TOT %	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9	
2<5	PCP	.7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.9	
	NO PCP	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
	TOT %	1.6	.0	.0	.0	.0	.0	.0	.2	.0	.0	1.8	
5<10	PCP	2.2	.9	.9	.9	.0	.0	.0	.4	.0	.0	5.4	
	NO PCP	.7	1.8	3.3	.2	.9	.0	.0	.2	.0	.0	7.1	
	TOT %	2.9	2.7	4.2	1.1	.9	.0	.0	.7	.0	.0	12.5	
10+	PCP	.0	1.8	2.5	1.1	.0	.0	.0	.0	.0	.0	5.4	
	NO PCP	4.5	10.0	23.2	25.2	4.9	.2	3.3	6.3	.0	1.8	79.5	
	TOT %	4.5	11.8	25.7	26.3	4.9	.2	3.3	6.3	.0	1.8	84.8	
	TOT OBS												112
	TOT PCT	8.9	14.5	29.9	27.5	6.7	.2	3.3	7.1	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.9	.0	.0	.0	.0		.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	1.6	.0	.0	.0	.0	.0	.0	.2	.0		1.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.6	.0	.0	.0	.0	.0	.0	.2	.0	.0	1.8	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.3	.9	.9	.0	.9	.0	.0	.4	.0		4.5	
	11-21	1.6	.9	2.5	.2	.0	.0	.0	.2	.0		5.4	
	22+	.0	.9	.9	.9	.0	.0	.0	.0	.0		2.7	
	TOT %	2.9	2.7	4.2	1.1	.9	.0	.0	.7	.0	.0	12.5	
10+	0-3	.9	.0	.0	.9	.0	.0	.0	.0	.0	1.8	3.6	
	4-10	2.9	7.4	10.9	13.2	2.5	.2	1.8	3.1	.0		42.0	
	11-21	.7	4.5	13.8	9.6	2.5	.0	1.6	2.2	.0		34.8	
	22+	.0	.0	.9	2.7	.0	.0	.0	.9	.0		4.5	
	TOT %	4.5	11.8	25.7	26.3	4.9	.2	3.3	6.3	.0	1.8	84.8	
	TOT OBS												112
	TOT PCT	8.9	14.5	29.9	27.5	6.7	.2	3.3	7.1	.0	1.8	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1953-1978
(OVER-ALL) 1880-1978

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	12.1	15.2	9.1	9.1	.0	.0	.0	.0	45.5	54.5	33
06&09	.0	.0	4.0	4.0	28.0	12.0	8.0	.0	.0	.0	56.0	44.0	25
12&15	.0	.0	.0	10.5	10.5	5.3	5.3	.0	.0	5.3	36.8	63.2	19
18&21	.0	.0	3.4	17.2	27.6	.0	.0	.0	.0	.0	48.3	51.7	29
TOT	0	0	6	13	20	7	3	0	0	1	50	56	106
PCT	.0	.0	5.7	12.3	18.9	6.6	2.8	.0	.0	.9	47.2	52.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	2.5	12.5	85.0	40
06&09	.0	.0	3.7	3.7	7.4	85.2	27
12&15	.0	.0	.0	.0	8.7	91.3	23
18&21	.0	.0	.0	.0	17.2	82.8	29
TOT	0	0	1	2	14	102	119
PCT	.0	.0	.8	1.7	11.8	85.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	12.1	27.3	18.2	54.5	33
06&09	.0	4.0	12.0	44.0	44.0	25
12&15	.0	.0	11.8	29.4	58.8	17
18&21	.0	3.4	20.7	27.6	51.7	29
TOT	0	6	20	30	54	104
PCT	.0	5.8	19.2	28.8	51.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.9	2.6	.9	.0	5	4.4
80/84	.0	.0	.0	.0	2.6	18.4	23.7	6.1	58	50.9
75/79	.0	.0	.0	.0	.0	13.2	14.0	16.7	50	43.9
70/74	.0	.0	.0	.0	.0	.0	.0	.9	1	.9
TOTAL	0	0	0	0	4	39	44	27	114	100.0
PCT	.0	.0	.0	.0	3.5	34.2	38.6	23.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.5	1.1	.0	.0	.0	.9	.0	.9
7.7	8.3	12.7	10.5	2.4	.2	2.4	4.8	.0	1.8
3.5	4.2	9.6	20.0	4.2	.0	.9	1.5	.0	.0
.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
11.2	13.4	23.9	31.6	6.6	.2	3.3	7.2	.0	2.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	95	94	87	82	78	77	77	82.4	53
06&09	84	83	83	81	76	76	76	80.5	30
12&15	83	82	82	79	77	74	74	79.2	25
18&21	83	82	82	79	75	75	75	78.5	31
TOT	95	89	85	81	76	75	74	80.5	139

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	7.9	39.5	34.2	18.4	82	38
06&09	.0	.0	.0	25.0	57.1	17.9	83	28
12&15	.0	.0	.0	36.0	40.0	24.0	84	25
18&21	.0	.0	3.4	34.5	27.6	34.5	83	29
TOT	0	0	4	41	47	28	83	120

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	1.0	1	.0	1.0
14/16	.0	.0	.0	.0	1.0	.0	1	.0	1.0
11/13	.0	.0	.0	1.0	.0	.0	1	.0	1.0
7/8	.0	.0	1.0	.0	.0	.0	1	.0	1.0
5	.0	.0	1.0	.0	.0	.0	1	.0	1.0
3	.0	1.0	4.0	.0	.0	.0	5	.0	5.1
2	.0	.0	2.0	2.0	.0	.0	4	.0	4.0
1	.0	3.0	4.0	1.0	.0	.0	8	.0	8.1
0	.0	4.0	8.1	1.0	.0	.0	13	.0	13.1
-1	1.0	9.1	3.0	2.0	.0	.0	15	.0	15.2
-2	.0	9.1	10.1	.0	.0	.0	19	.0	19.2
-3	.0	4.0	6.1	.0	.0	.0	10	.0	10.1
-4	1.0	4.0	3.0	.0	.0	.0	8	.0	8.1
-5	.0	4.0	1.0	.0	.0	.0	5	.0	5.1
-6	1.0	1.0	1.0	.0	.0	.0	3	.0	3.0
-7/-8	.0	1.0	.0	.0	.0	.0	1	.0	1.0
-9/-10	2.0	1.0	.0	.0	.0	.0	3	.0	3.0
TOTAL	5	41	44	7	1	1	99	0	99
PCT	5.1	41.4	44.5	7.1	1.0	1.0	100.0		100.0

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	1.1	.0	.0	.0	.0	2.5
1-2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.0	4.7	.0	.0	.0	4.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	2.5	4.7	.0	.0	.0	8.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.3	2.9	.0	.0	.0	7.2
3-4	.0	.0	2.9	.0	.0	.0	2.9
5-6	.0	1.4	1.4	.0	.0	.0	2.9
7	.0	.0	1.4	1.4	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	8.7	1.4	.0	.0	15.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	6.9	1.4	.0	.0	.0	8.3
3-4	.0	2.9	7.6	.0	.0	.0	10.5
5-6	.0	.0	6.2	.0	.0	.0	6.2
7	.0	.0	2.5	.0	.0	.0	2.5
8-9	.0	.0	.0	1.4	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.2	17.8	1.4	.0	.0	30.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	12.0	.0	.0	.0	.0	12.0
3-4	.0	1.4	2.8	1.4	.0	.0	5.4
5-6	.0	.0	4.0	.0	.0	.0	4.0
7	.0	.0	2.2	.0	.0	.0	2.2
8-9	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.4	10.1	1.4	.0	.0	25.0

PERIOD: (OVER-ALL) 1963-1978

FEBRUARY

AREA 0014 TONGA ISLANDS GROUP
20.2S 174.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S 1-3	4-10	11-21	22-33	34-47	48+	PCT	SW 1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.0	1.4	.0	.0	.0	5.4	.0	.4	.0	.0	.0	.0	.4
3-4	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	2.5	.0	.0	.0	8.0	.0	.4	.0	.0	.0	.0	.4

HGT	W 1-3	4-10	11-21	22-33	34-47	48+	PCT	NW 1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	1.4	.0	.0	.0	.0	1.4	.0	1.4	4.0	.0	.0	.0	5.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.4	.0	.0	.0	.0	1.4	.0	1.8	4.0	1.4	.0	.0	7.2	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.6	2.8	.0	.0	.0	.0	8.5	
1-2	.0	29.6	5.6	.0	.0	.0	35.2	
3-4	.0	8.5	21.1	1.4	.0	.0	31.0	
5-6	.0	1.4	11.3	.0	.0	.0	12.7	
7	.0	.0	7.0	1.4	.0	.0	8.5	
8-9	.0	.0	1.4	1.4	.0	.0	2.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.4	.0	.0	1.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	42.3	46.5	5.6	.0	.0	100.0	71

PERIOD: (OVER-ALL) 1952-1978

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	8.5	10.6	9.6	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	4
6-7	.0	.0	4.3	7.4	9.6	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	.0	3.2	1.1	4.3	5.3	3.2	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	8
10-11	.0	.0	.0	3.2	2.1	1.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
12-13	.0	.0	.0	.0	1.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	4	16
INDET	.0	1.1	2.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
TOTAL	2	9	19	21	17	10	9	2	2	1	0	2	0	0	0	0	0	0	0	94	6
PCT	2.1	9.6	20.2	22.3	18.1	10.6	9.6	2.1	2.1	1.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1881-1977

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	12.5	.0	.0	.0	.0	.0	12.5	21.9	12.5	.0	.0	.0		.0	53.1
NE	9.5	.0	.0	.0	.0	.0	.0	9.5	.0	.0	.0	.0	.0		.0	90.5
E	13.9	1.9	.0	.0	.0	.0	.0	15.8	.0	.0	.0	.0	.0		.0	84.2
SE	3.3	.0	.0	.0	.0	.0	.0	6.0	.0	.0	3.4	.0	.0		.0	90.6
S	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0		.0	83.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0	.0		.0	76.5
W	31.8	.0	.0	.0	.0	.0	.0	30.8	11.9	.0	.0	.0	.0		.0	57.7
NW	.0	.0	10.0	.0	.0	.0	.0	10.0	15.0	.0	.0	.0	.0		.0	75.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0		.0	66.7
TOT PCT	10.6	1.5	.8	.0	.0	.0	.0	12.9	3.8	.8	.8	.0	.0		.0	81.8
TOT OBS:	132															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0		.0	85.7
06&09	10.3	.0	.0	.0	.0	.0	.0	10.3	13.8	.0	.0	.0	.0		.0	75.9
12&15	7.4	7.4	3.7	.0	.0	.0	.0	18.5	.0	3.7	3.7	.0	.0		.0	74.1
18&21	4.8	.0	.0	.0	.0	.0	.0	4.8	4.8	.0	.0	.0	.0		.0	90.5
TOT PCT	10.5	1.5	.8	.0	.0	.0	.0	12.8	3.8	.8	.8	.0	.0		.0	82.0
TOT OBS:	133															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	1.9	1.7	1.9	.0	.0		6.5	15.1	1.9	.0	17.3	.0	6.9	.0	8.3	.0
NE	.0	7.0	3.9	.0	.0	.0		10.9	9.0	10.2	.0	11.5	.0	10.3	.0	15.5	.0
E	2.7	7.5	22.3	4.4	.5	.0		37.4	14.6	46.2	75.0	39.4	.0	25.0	.0	29.8	.0
SE	.0	4.9	10.4	6.5	1.5	.0		23.3	17.9	25.8	25.0	11.5	31.3	38.8	.0	7.1	.0
S	.0	2.9	.3	.0	.0	.0		3.2	9.1	1.1	.0	2.9	18.8	5.2	.0	4.8	.0
SW	.0	2.4	.7	.0	.0	.0		3.1	8.3	.4	.0	7.7	.0	4.3	.0	4.8	.0
W	.0	2.6	2.0	1.2	.0	.0		5.8	12.4	7.6	.0	.0	.0	2.6	.0	13.1	.0
NW	.3	4.9	1.5	.3	.0	.0		7.1	9.9	5.3	.0	5.8	50.0	3.4	.0	11.9	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0	1.5	.0	3.8	.0	3.4	.0	4.8	.0
TOT OBS	10	50	63	21	3	0	147		13.6	66	1	26	4	29	0	21	0
TOT PCT	6.8	34.0	42.9	14.3	2.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.0	3.1	1.0	1.4	.0		6.5	15.1	1.9	15.0	6.9	8.3
NE	4.1	6.5	.3	.0	.0		10.9	9.0	10.1	10.0	10.3	15.5
E	4.1	20.6	11.6	1.2	.0		37.4	14.6	46.6	34.2	25.0	29.8
SE	.7	11.4	9.0	2.2	.0		23.3	17.9	25.7	14.2	38.8	7.1
S	.7	2.2	.3	.0	.0		3.2	9.1	1.1	5.0	5.2	4.8
SW	.9	2.2	.0	.0	.0		3.1	8.3	.4	0.7	4.3	4.8
W	1.2	3.4	1.2	.0	.0		5.8	12.4	7.5	.0	2.6	13.1
NW	1.7	5.1	.3	.0	.0		7.1	9.9	5.2	11.7	3.4	11.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	1.5	3.3	3.4	4.8
TOT OBS	25	80	35	7	0	147		13.6	67	30	29	21
TOT PCT	17.0	54.4	23.8	4.8	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1881-1977

AREA 0014 TONGA ISLANDS GROUP
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.5	3.0	23.9	49.3	20.9	1.5	.0	15.4	100.0	67
06&09	3.3	6.7	40.0	40.0	10.0	.0	.0	12.0	100.0	30
12&15	3.4	6.9	31.0	44.8	6.9	6.9	.0	13.0	100.0	29
18&21	4.8	.0	61.9	23.8	9.5	.0	.0	10.7	100.0	21
TOT	4	6	50	63	21	3	0	13.6		147
PCT	2.7	4.1	34.0	42.9	14.3	2.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	3.9	4.2		7.3
NE	2.2	3.1	7.0	2.5		5.0
E	3.1	8.7	14.3	8.4		5.4
SE	7.0	5.6	1.1	1.7		3.2
S	.0	2.8	.0	.0		3.7
SW	.0	1.4	1.1	2.2		5.8
W	.0	.8	1.1	4.2		7.0
NW	.0	.0	2.8	7.0		7.6
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.1	1.1	.0		3.6
TOT OBS	12	21	29	27	89	5.4
TOT PCT	13.5	23.6	32.6	30.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.1	.0	.0	2.0	3.1	.0	.0	.0	.0	.0	2.0	
NE	.0	.0	.0	.0	1.7	2.2	.0	.0	.0	1.1	9.8	
E	.0	.0	.0	4.5	6.7	.0	1.1	.0	.0	.0	22.2	
SE	.0	.0	.0	1.1	.8	.0	.0	.0	.0	.0	13.5	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
SW	.0	.0	.0	2.2	1.1	.0	.0	.0	.0	.0	1.4	
W	.8	.0	.0	1.1	1.1	1.1	.0	.0	.0	.0	2.0	
NW	.3	.0	.0	1.4	3.4	.0	.0	.0	.0	.0	4.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	
TOT OBS	2	0	0	11	16	3	1	0	0	1	55	89
TOT PCT	2.2	.0	.0	12.4	18.0	3.4	1.1	.0	.0	1.1	61.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2
= OR >2000	3.4	4.5	5.6	5.6	5.6	5.6	5.6	5.6
= OR >1000	16.9	22.5	23.6	23.6	23.6	23.6	23.6	23.6
= OR >600	23.6	32.6	34.8	34.8	36.0	36.0	36.0	36.0
= OR >300	23.6	32.6	34.8	34.8	36.0	36.0	36.0	36.0
= OR >150	23.6	32.6	34.8	34.8	36.0	36.0	36.0	36.0
= OR > 0	23.6	33.7	36.0	36.0	38.2	38.2	38.2	38.2
TOTAL	21	30	32	32	34	34	34	34

TOTAL NUMBER OF OBS: 89 PCT FREQ NH <5/8: 61.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.1	11.7	14.9	13.8	20.2	8.5	6.4	5.3	16.0	1.1	94

PERIOD: (PRIMARY) 1942-1977
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	
1/2<1	PCP	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	1.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	1.5	
1<2	PCP	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	1.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	1.5	
2<5	PCP	.0	.0	1.3	.9	.0	.0	.0	.0	.0	.0	2.3	
	NO PCP	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.8	.0	1.3	.9	.0	.0	.0	.0	.0	.0	3.0	
5<10	PCP	.0	.2	2.1	.4	.4	.0	.8	.0	.0	.0	3.8	
	NO PCP	.0	.0	2.1	.2	.0	.0	2.1	1.7	.0	.0	6.1	
	TOT %	.0	.2	4.2	.6	.4	.0	2.8	1.7	.0	.0	9.8	
10+	PCP	.0	.2	1.3	.0	.0	.0	.0	.8	.0	.8	3.0	
	NO PCP	4.5	10.8	31.3	20.6	1.9	3.2	1.3	5.1	.0	1.5	80.3	
	TOT %	4.5	11.0	32.6	20.6	1.9	3.2	1.3	5.9	.0	2.3	83.3	
	TOT OBS												132
	TOT PCT	6.1	11.9	39.6	22.2	2.3	3.2	4.9	7.4	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.7	.0	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.7	.0	.0	.0	.0	.0	.0		.7	
	11-21	.7	.0	.0	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	1.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.7	.0	.0		.7	
	22+	.0	.0	.7	.0	.0	.0	.0	.0	.0		.7	
	TOT %	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	1.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.7	.0	.0	.0	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.7	.7	.0	.0	.0	.0	.0		1.5	
	TOT %	.7	.0	1.3	.9	.0	.0	.0	.0	.0	.0	3.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.7	.0	.0	.0	1.5	1.5	.0		3.7	
	11-21	.0	.2	3.4	.6	.4	.0	.0	.0	.0		4.5	
	22+	.0	.0	.0	.0	.0	.0	1.3	.2	.0		1.5	
	TOT %	.0	.2	4.1	.6	.4	.0	2.8	1.7	.0	.0	9.7	
10+	0-3	.7	.0	2.2	.0	.0	.0	.0	.0	.0	2.2	5.2	
	4-10	1.3	7.6	6.7	5.4	1.9	2.4	.6	3.9	.0		29.9	
	11-21	1.1	3.4	19.8	9.1	.0	.7	.7	1.7	.0		36.6	
	22+	1.3	.0	3.9	6.5	.0	.0	.0	.2	.0		11.9	
	TOT %	4.5	11.0	32.6	21.1	1.9	3.2	1.3	5.8	.0	2.2	83.6	
	TOT OBS												134
	TOT PCT	6.0	11.9	39.6	22.6	2.2	3.2	4.9	7.5	.0	2.2	100.0	

MARCH

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1881-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	4.2	16.7	4.2	4.2	.0	.0	.0	29.2	70.8	24
06&09	.0	.0	.0	15.4	23.1	3.8	.0	.0	.0	.0	42.3	57.7	26
12&15	4.5	.0	.0	9.1	13.6	4.5	.0	.0	.0	.0	31.8	68.2	22
18&21	4.8	.0	.0	19.0	14.3	.0	.0	.0	.0	4.8	42.9	57.1	21
TOT	2	0	0	11	16	3	1	0	0	1	34	59	93
PCT	2.2	.0	.0	11.8	17.2	3.2	1.1	.0	.0	1.1	36.6	63.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.7	.0	3.4	1.7	8.6	84.5	58
06&09	.0	3.4	.0	3.4	10.3	82.8	29
12&15	.0	3.7	.0	3.7	7.4	85.2	27
18&21	.0	.0	.0	4.8	14.3	81.0	21
TOT	1	2	2	4	13	113	135
PCT	.7	1.5	1.5	3.0	9.6	83.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	8.7	21.7	69.6	23
06&09	.0	4.0	16.0	28.0	56.0	25
12&15	4.8	4.8	14.3	19.0	66.7	21
18&21	5.0	5.0	25.0	20.0	55.0	20
TOT	2	3	14	20	55	89
PCT	2.2	3.4	15.7	22.5	61.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.8	1.6	.0	.0	.0	3	2.4
90/94	.0	.0	.0	.0	.0	1.6	.0	.0	2	1.6
85/89	.0	.0	.0	3.2	6.4	4.0	.8	.0	18	14.4
80/84	.0	.0	.0	1.6	9.6	10.4	22.4	6.4	63	50.4
75/79	.0	.0	.0	.0	3.2	5.6	11.2	8.8	36	28.8
70/74	.0	.0	.0	.0	.0	.0	.0	2.4	3	2.4
TOTAL	0	0	0	7	26	27	43	22	125	100.0
PCT	.0	.0	.0	5.6	20.8	21.6	34.4	17.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.6	1.6	.0	.0	.0	.0	.0	.0
.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
.0	1.8	9.0	2.8	.0	.0	.0	.8	.0	.0
5.0	5.8	20.2	9.6	1.4	1.8	3.0	2.0	.0	1.6
1.4	4.2	7.4	7.6	1.4	1.0	1.4	3.6	.0	.8
.0	.0	1.6	.0	.0	.0	.0	.8	.0	.0
6.4	12.0	40.4	21.6	2.8	2.8	4.4	7.2	.0	2.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	96	95	91	83	75	74	74	83.1	67
06&09	86	85	83	80	75	75	75	79.8	28
12&15	83	82	82	79	74	74	74	78.6	30
18&21	82	81	81	80	78	77	77	79.7	21
TOT	96	95	88	80	75	74	74	81.0	146

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	12.5	33.9	30.4	12.5	10.7	72	56
06&09	.0	.0	10.7	25.0	46.4	17.9	81	28
12&15	.0	.0	9.5	4.8	52.4	33.3	85	21
18&21	.0	.0	9.5	9.5	61.9	19.0	84	21
TOT	0	7	26	27	44	22	78	126

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	1.1	.0	1.1	1.1	3	.0	3.2
4	.0	.0	1.1	.0	1.1	2	.0	2.1
3	.0	.0	.0	1.1	.0	1	.0	1.1
2	.0	.0	1.1	1.1	.0	2	.0	2.1
1	.0	1.1	3.2	1.1	.0	5	.0	5.3
0	1.1	5.3	7.4	2.1	.0	15	.0	16.0
-1	.0	14.9	5.3	1.1	.0	20	.0	21.3
-2	1.1	10.6	2.1	.0	.0	13	.0	13.8
-3	1.1	7.4	5.3	.0	.0	13	.0	13.8
-4	1.1	5.3	2.1	.0	.0	8	.0	8.5
-5	1.1	5.3	.0	.0	.0	6	1.1	5.3
-6	2.1	.0	.0	.0	.0	2	.0	2.1
-7/-8	2.1	1.1	.0	.0	.0	3	.0	3.2
-9/-10	1.1	.0	.0	.0	.0	1	.0	1.1
TOTAL	10	49	26	7	2	94	1	93
PCT	10.6	52.1	27.7	7.4	2.1	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1965-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.3	2.7	1.3	.0	.0	.0	5.3
3-4	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.3	.0	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	2.7	3.3	1.3	.0	.0	8.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.3	.0	.0	.0	.0	7.3
3-4	.0	1.3	4.3	.0	.0	.0	5.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.7	4.7	.0	.0	.0	13.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.7	.0	.0	.0	.0	.0	2.7
1-2	.0	4.3	2.0	.0	.0	.0	6.3
3-4	.0	1.3	11.3	.0	.0	.0	12.7
5-6	.0	2.3	6.3	.0	.0	.0	8.7
7	.0	.0	3.7	.0	.0	.0	3.7
8-9	.0	.0	.0	1.3	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	8.0	23.3	1.3	.0	.0	35.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.7	.7	.0	.0	.0	6.3
3-4	.0	2.0	.3	.0	.0	.0	2.3
5-6	.0	.3	5.7	.0	.0	.0	6.0
7	.0	.0	.3	1.3	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.0	7.0	1.3	.0	.0	16.3

MARCH

PERIOD: (OVER-ALL) 1963-1977

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	2.0	.0	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	.0	.0	.0	.0	3.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	1.3	1.3	.0	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	1.3	.0	.0	.0	5.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	2.7	.0	.0	.0	.0	2.7
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	2.3	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	1.3	2.3	.0	.0	7.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	2.7	.3	.0	.0	.0	3.0	
3-4	.0	2.7	.0	.0	.0	.0	2.7	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.3	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	5.3	.3	.7	.0	.0	6.3	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.9	1.3	.0	.0	.0	.0	9.2	
1-2	1.3	26.3	3.9	.0	.0	.0	31.6	
3-4	.0	13.2	18.4	.0	.0	.0	31.6	
5-6	.0	2.6	13.2	.0	.0	.0	15.8	
7	.0	.0	5.3	3.9	.0	.0	9.2	
8-9	.0	.0	.0	1.3	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	1.3	.0	.0	1.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								76
TOT PCT	9.2	43.4	40.8	6.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1954-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	9.3	10.5	3.5	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	3
6-7	.0	.0	12.8	9.3	9.3	4.7	.0	1.2	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
8-9	.0	.0	8.3	4.7	2.3	3.5	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
10-11	.0	.0	1.2	1.2	3.5	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
12-13	.0	.0	3.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	1.2	2.3	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
TOTAL	2	8	27	18	16	7	2	2	4	0	0	0	0	0	0	0	0	0	0	86	5
PCT	2.3	9.3	31.4	20.9	18.6	8.1	2.3	2.3	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1873-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	10.3	.0	.0	.0	.0	.0	.0	10.3	10.3	.0	.0	.0	.0	.0	.0	79.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	2.2	.0	.0	.0	.0	.0	2.2	2.2	.0	.0	.0	.0	.0	.0	95.6
SE	2.1	4.1	2.1	.0	.0	.0	2.1	8.3	.0	.0	.0	.0	.0	.0	.0	91.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0	92.3
NW	.0	18.6	9.3	.0	.0	.0	.0	27.9	2.3	.0	.0	.0	9.3	.0	.0	60.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
TOT PCT	1.3	2.5	1.3	.0	.0	.0	.6	5.6	2.5	.0	.0	.0	.6	.0	.0	91.3
TOT OBS:	160															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.6	1.6	1.6	.0	.0	.0	1.6	6.6	1.6	.0	.0	.0	1.6	.0	.0	90.2
06&09	.0	7.9	.0	.0	.0	.0	.0	7.9	2.6	.0	.0	.0	.0	.0	.0	89.5
12&15	2.6	2.6	.0	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	.0	.0	.0	89.5
18&21	.0	.0	3.7	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	96.3
TOT PCT	1.2	3.0	1.2	.0	.0	.0	.6	6.1	2.4	.0	.0	.0	.6	.0	.0	90.9
TOT OBS:	164															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	3.5	1.9	.0	.0	.0		6.0	9.0	6.3	50.0	5.0	.0	3.8	.0	7.1	.0
NE	1.1	4.3	2.6	.0	.0	.0		8.0	9.4	7.2	50.0	7.9	41.7	5.8	.0	7.1	.0
E	2.2	9.0	14.8	3.1	.0	.0		29.1	12.9	31.3	.0	32.9	25.0	33.3	100.0	12.5	.0
SE	1.8	10.9	11.3	6.1	.0	.0		30.0	13.8	34.9	.0	34.3	.0	16.0	.0	37.5	.0
S	.4	5.6	2.0	.0	.0	.0		8.0	10.7	6.3	.0	7.9	.0	11.5	.0	9.8	.0
SW	.5	.3	1.9	.0	.0	.0		2.7	11.6	.3	.0	3.6	.0	5.1	.0	5.4	.0
W	.5	3.1	.4	1.1	.5	.0		5.7	13.6	3.0	.0	2.9	33.3	9.0	.0	9.8	.0
NW	.5	3.5	1.5	.0	.5	.0		6.1	10.9	5.6	.0	2.9	.0	10.3	.0	7.1	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0	5.3	.0	2.6	.0	5.1	.0	3.6	.0
TOT OBS	22	74	67	19	2	0	184		11.8	76	2	35	3	39	1	28	0
TOT PCT	12.0	40.2	36.4	10.3	1.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.4	3.9	.7	.0	.0		6.0	9.0	7.4	4.6	3.8	7.1
NE	1.6	5.8	.5	.0	.0		8.0	9.4	8.3	10.5	5.6	7.1
E	5.0	16.4	7.1	.5	.0		29.1	12.9	30.4	32.2	35.0	12.5
SE	4.3	14.1	11.5	.0	.0		30.0	13.8	34.0	31.6	15.6	37.5
S	.4	6.3	1.4	.0	.0		8.0	10.7	6.1	7.2	11.3	9.8
SW	.5	1.5	.7	.0	.0		2.7	11.6	.3	3.3	5.0	5.4
W	1.4	2.7	1.1	.5	.0		5.7	13.6	2.9	5.3	8.8	9.8
NW	2.7	1.9	1.0	.5	.0		6.1	10.9	5.4	2.6	10.0	7.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.3						4.3	.0	5.1	2.6	5.0	3.6
TOT OBS	40	97	44	3	0	184		11.8	78	38	40	28
TOT PCT	21.7	52.7	23.9	1.6	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1873-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.1	11.5	44.9	30.8	7.7	.0	.0	10.3	100.0	78
06&09	2.6	2.6	34.2	42.1	15.8	2.6	.0	14.2	100.0	38
12&15	5.0	5.0	42.5	37.5	7.5	2.5	.0	11.9	100.0	40
18&21	3.6	7.1	32.1	42.9	14.3	.0	.0	12.6	100.0	28
TOT	8	14	74	67	19	2	0	11.8		184
PCT	4.3	7.6	40.2	36.4	10.3	1.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	2.0	2.3	2.5		5.4
NE	.0	3.5	1.8	2.3		5.4
E	4.5	7.6	8.0	6.4		5.1
SE	3.1	8.8	11.1	5.7		5.2
S	.6	5.3	1.2	1.2		4.2
SW	1.0	1.2	1.8	.0		4.0
W	1.4	2.0	3.9	.6		4.3
NW	.4	.6	5.9	1.0		5.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		2.0
TOT OBS	16	38	44	24	122	5.0
TOT PCT	13.1	31.1	36.1	19.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	7.2	
NE	.0	.0	.6	.0	2.5	.0	.0	.0	.0	.0	4.5	
E	.0	.0	2.5	4.5	3.1	.8	.0	.6	.0	.0	15.0	
SE	.0	.0	1.0	3.9	4.3	.8	.8	.6	.0	.0	17.2	
S	.0	.0	.0	.6	1.4	.0	.0	.4	.0	.0	5.9	
SW	.0	.0	.0	.8	.2	.0	.0	.0	.0	.0	3.1	
W	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	6.4	
NW	.0	.0	.8	1.6	2.5	.0	.0	.0	.0	.0	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
TOT OBS	0	0	6	14	20	2	1	2	0	0	77	122
TOT PCT	.0	.0	4.9	11.5	16.4	1.6	.8	1.6	.0	.0	63.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3300	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
= OR >2000	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0
= OR >1000	16.1	20.2	20.2	20.2	20.2	20.2	20.2	20.2
= OR >600	25.8	31.5	31.5	31.5	31.5	31.5	31.5	31.5
= OR >300	29.8	36.3	36.3	36.3	36.3	36.3	36.3	36.3
= OR >150	29.8	36.3	36.3	36.3	36.3	36.3	36.3	36.3
= OR > 0	29.8	36.3	36.3	36.3	36.3	36.3	36.3	36.3
TOTAL	37	45	45	45	45	45	45	45

TOTAL NUMBER OF OBS: 124 PCT FREQ NH <5/8: 63.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.1	9.3	14.7	20.2	16.3	10.1	10.1	6.2	10.1 .0	129

APRIL

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1873-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.3	
	NO PCP	.6	.2	3.3	1.3	.3	.0	1.3	.0	.0	.0	6.9	
	TOT %	.6	.2	3.3	1.9	.3	.0	1.3	.6	.0	.0	8.1	
10+	PCP	.6	.0	.6	1.9	.0	.0	.0	1.3	.0	.0	4.4	
	NO PCP	4.8	6.9	24.5	26.3	7.2	3.1	4.8	4.8	.0	5.0	87.5	
	TOT %	5.5	6.9	25.2	28.1	7.2	3.1	4.8	6.1	.0	5.0	91.9	
	TOT OBS												160
	TOT PCT	6.1	7.0	28.4	30.0	7.5	3.1	6.1	6.7	.0	5.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.5	.2	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.6	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.6	.0	.3	.3	.0	.0	.0	.0	.0		1.2	
	11-21	.0	.2	2.3	.9	.3	.0	.0	.0	.0		3.7	
	22+	.0	.0	.6	.6	.0	.0	1.2	.6	.0		3.1	
	TOT %	.6	.2	3.2	1.8	.3	.0	1.2	.6	.0	.0	8.0	
10+	0-3	.6	.6	2.5	2.0	.5	.6	.6	.6	.0	4.9	12.9	
	4-10	3.4	4.3	8.4	10.3	5.1	.3	3.1	3.8	.0		38.7	
	11-21	1.4	1.8	12.1	10.3	1.5	2.1	.5	1.5	.0		31.3	
	22+	.0	.0	1.7	6.3	.0	.0	.6	.0	.0		8.6	
	TOT %	5.4	6.7	24.7	28.8	7.1	3.1	4.8	6.0	.0	4.9	91.4	
	TOT OBS												183
	TOT PCT	6.0	6.9	27.9	30.7	7.4	3.1	6.4	6.7	.0	4.9	100.0	

APRIL

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1873-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.2	12.9	19.4	3.2	3.2	.0	.0	.0	41.9	58.1	31
06&09	.0	.0	8.1	13.5	10.8	.0	.0	.0	.0	.0	32.4	67.6	37
12&15	.0	.0	6.1	9.1	12.1	3.0	.0	6.1	.0	.0	36.4	63.6	33
18&21	.0	.0	.0	7.7	23.1	.0	.0	.0	.0	.0	30.8	69.2	26
TOT	0	0	6	14	20	2	1	2	0	0	45	82	127
PCT	.0	.0	4.7	11.0	15.7	1.6	.8	1.6	.0	.0	35.4	64.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	1.6	7.8	90.6	64
06&09	.0	.0	.0	.0	5.3	94.7	38
12&15	.0	.0	.0	.0	13.2	86.8	38
18&21	.0	.0	.0	.0	3.7	96.3	27
TOT	0	0	0	1	13	153	167
PCT	.0	.0	.0	.6	7.8	91.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET/NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.2	19.4	25.8	54.8	31
06&09	.0	8.3	22.2	11.1	66.7	36
12&15	.0	6.3	15.6	21.9	62.5	32
18&21	.0	.0	8.0	24.0	68.0	25
TOT	0	6	21	25	78	124
PCT	.0	4.8	16.9	20.2	62.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.7	.0	.0	.0	.0	1	.7
90/94	.0	.0	.0	2.6	1.3	.7	.0	.0	7	4.6
85/89	.0	.0	.0	3.9	3.3	.0	.0	.0	11	7.2
80/84	.0	.0	.0	2.0	5.9	12.4	11.8	5.2	57	37.3
75/79	.0	.0	.0	1.3	6.5	9.8	17.0	11.1	70	45.8
70/74	.0	.0	.0	.0	2.0	.7	.7	1.3	7	4.6
TOTAL	0	0	0	16	29	36	45	27	153	100.0
PCT	.0	.0	.0	10.5	19.0	23.5	29.4	17.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
.0	.0	3.9	.7	.0	.0	.0	.0	.0	.0
.0	2.0	2.1	2.5	.0	.0	.0	.0	.0	.7
4.6	4.2	8.8	10.0	2.0	.0	1.6	4.1	.0	2.0
2.0	2.0	14.7	13.1	3.4	1.6	4.7	2.9	.0	1.3
.0	.0	.0	1.5	1.0	1.0	.5	.0	.0	.7
6.5	8.2	29.6	28.3	6.4	2.6	6.9	7.0	.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	97	96	93	82	75	71	71	82.5	78
06&09	82	81	81	78	76	75	75	78.6	40
12&15	82	81	81	78	75	70	70	78.3	41
18&21	82	81	81	77	74	73	73	77.3	28
TOT	97	93	89	79	75	71	70	80.0	187

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	21.0	24.2	24.2	17.7	12.9	73	62
06&09	.0	2.7	16.2	21.6	35.1	24.3	81	37
12&15	.0	2.9	14.3	20.0	40.0	22.9	82	35
18&21	.0	4.2	12.5	29.2	37.5	16.7	79	24
TOT	0	16	29	37	47	29	78	158

APRIL

PERIOD: (PRIMARY) 1942-1977
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.8	1	.0	.8
11/13	.0	.0	.0	.0	.8	1	.0	.8
5	.0	.0	.0	.8	.8	2	.0	1.7
4	.0	.0	.0	1.7	.0	2	.0	1.7
3	.0	.0	.0	2.5	.0	3	.0	2.5
2	.0	.8	1.7	.0	.0	3	.0	2.5
1	.0	.0	.0	5.1	.0	6	.0	5.1
0	.0	.8	3.4	5.1	.0	11	.0	9.3
-1	.0	3.4	3.4	5.1	.0	14	.0	11.9
-2	.0	3.4	13.6	2.5	.0	23	.0	19.5
-3	.0	4.2	9.3	1.7	.0	18	.0	15.3
-4	.0	1.7	6.8	.0	.0	10	.0	8.5
-5	.0	3.4	4.2	.8	.0	10	.0	8.5
-6	.0	1.7	3.4	.0	.0	6	.0	5.1
-7/-8	.0	1.7	3.4	.0	.0	6	.0	5.1
-9/-10	.8	.8	.0	.0	.0	2	.0	1.7
TOTAL	1	26	58	30	3	118	0	118
PCT	.8	22.0	49.2	25.5	2.5	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	2.4	.9	.0	.0	.0	3.2
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.9	2.1	.0	.0	.0	7.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.5	.0	.0	.0	.0	3.5
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	2.6	.0	.0	.0	7.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	4.4	3.5	.0	.0	.0	7.9
3-4	1.2	2.4	8.8	.0	.0	.0	12.4
5-6	.0	.0	2.9	3.5	.0	.0	6.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	2.6	.0	.0	.0	2.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	7.9	17.9	3.5	.0	.0	30.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.2	.0	.0	.0	1.2
1-2	.0	5.0	.0	.0	.0	.0	5.0
3-4	.0	2.4	3.8	.0	.0	.0	6.2
5-6	.0	.0	2.9	2.4	.0	.0	5.3
7	.0	.0	1.2	2.4	.0	.0	3.5
8-9	.0	.0	.3	2.4	.0	.0	2.6
10-11	.0	.0	1.2	.0	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.4	10.6	7.1	.0	.0	25.0

PERIOD: (OVER-ALL) 1963-1977

APRIL

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.7W

TABLE 1a (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	.0	.0	.0	.0	2.1
3-4	.0	1.2	2.1	.0	.0	.0	3.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	2.9	.0	.0	.0	6.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.3	.0	.0	.0	.6
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	2.9	.0	.0	.0	3.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.0	.0	.0	.0	.0	1.2
1-2	.0	.9	.9	.0	.0	.0	1.8
3-4	.0	2.1	.0	.0	.0	.0	2.1
5-6	.0	.0	.0	1.2	.0	.0	1.2
7	.0	.0	.0	1.2	.0	.0	1.2
8-9	.0	.0	.0	1.2	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	2.9	.9	2.4	1.2	.0	8.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	3.8	2.4	.0	.0	.0	6.2	
3-4	.0	.3	.0	.0	.0	.0	.3	
5-6	.0	1.2	.0	.0	.0	.0	1.2	
7	.0	.0	.0	.0	1.2	.0	1.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	5.3	2.4	.0	1.2	.0	8.8	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	5.9	1.2	.0	.0	.0	10.6	
1-2	.0	20.0	7.1	.0	.0	.0	27.1	
3-4	1.2	10.6	17.6	.0	.0	.0	29.4	
5-6	.0	1.2	9.4	5.9	1.2	.0	17.6	
7	.0	.0	1.2	3.5	1.2	.0	5.9	
8-9	.0	.0	4.7	3.5	.0	.0	8.2	
10-11	.0	.0	1.2	.0	.0	.0	1.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.7	37.6	42.4	12.9	2.4	.0	100.0	85

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	8.3	14.8	2.8	3.7	4.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	4
6-7	.0	.0	3.7	8.3	8.3	2.8	1.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	6
8-9	.0	.0	.9	1.9	6.5	1.9	2.8	.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	8
10-11	.0	.0	.0	.9	.0	1.9	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
12-13	.0	.0	1.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	1.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
INDET	2.8	.9	2.8	2.8	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
TOTAL	3	10	26	20	23	12	7	3	4	0	0	0	0	0	0	0	0	0	0	108	6
PCT	2.8	9.3	24.1	18.5	21.3	11.1	6.5	2.8	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1876-1977

AREA 0014 TONGA ISLANDS GROUP
20.5S 174.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	16.7	.0	.0	.0	.0	.0	16.7	16.7	22.2	.0	.0	.0		.0	44.4
NE	5.6	.0	.0	.0	.0	.0	.0	5.6	5.9	5.6	.0	.0	.0		.0	87.5
E	2.8	13.9	2.8	.0	.0	.0	.0	18.7	1.8	.0	1.6	.0	.0		.0	78.2
SE	1.3	4.1	.8	.0	.0	.0	.0	4.2	3.4	1.7	.0	.0	.0		.0	90.7
S	.0	4.6	3.4	.0	.0	.0	.0	8.0	9.2	.0	.0	.0	.0		.0	82.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	20.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0		.0	80.0
NW	19.0	4.8	.0	.0	.0	.0	.0	23.8	.0	19.0	.0	.0	.0		.0	57.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.1	8.9	1.6	.0	.0	.0	.0	10.6	3.7	2.1	.5	.0	.0		.0	83.5
TOT OBS:	188															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.2	9.3	1.2	.0	.0	.0	.0	11.6	1.2	.0	.0	.0	.0		.0	87.2
06&09	.0	.0	.0	.0	.0	.0	.0	.0	9.1	3.0	3.0	.0	.0		.0	84.8
12&15	7.0	7.0	4.7	.0	.0	.0	.0	18.6	4.7	4.7	.0	.0	.0		.0	74.4
18&21	.0	9.7	.0	.0	.0	.0	.0	9.7	3.2	3.2	.0	.0	.0		.0	83.9
TOT PCT	2.1	7.3	1.6	.0	.0	.0	.0	10.9	3.6	2.1	.5	.0	.0		.0	83.4
TOT OBS:	193															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	1.4	.8	.3	.0	.0		3.0	10.6	3.8	.0	.0	.0	2.1	.0	5.6	.0
NE	1.2	5.5	3.1	.9	.0	.0		10.7	9.7	10.0	.0	14.1	.0	11.5	.0	9.7	.0
E	3.8	11.7	14.3	3.7	.5	.0		34.1	13.2	40.8	.0	37.5	37.5	31.3	.0	12.1	100.0
SE	.9	9.8	13.8	4.7	.9	.5		30.6	15.2	28.3	.0	30.5	25.0	30.7	.0	40.3	.0
S	2.8	3.7	2.8	.9	.5	.0		10.7	10.8	12.0	.0	8.6	37.5	5.7	.0	15.3	.0
SW	.6	1.9	2.8	.0	.0	.0		5.2	9.7	2.3	.0	6.3	.0	10.4	.0	6.5	.0
W	.0	1.9	.0	.5	.0	.0		2.3	10.4	1.0	.0	.0	.0	2.1	.0	9.7	.0
NW	.0	1.9	.0	.6	.0	.0		2.4	13.0	1.0	100.0	3.1	.0	4.2	.0	.8	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	1.0	.0	.0	.0	2.1	.0	.0	.0
TOT OBS	23	81	81	25	4	1	215		12.7	100	1	32	2	48	0	31	1
TOT PCT	10.7	37.7	37.7	11.6	1.9	.5		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	1.7	.3	.0	.0		3.0	10.6	3.7	.0	2.1	5.5
NE	3.6	5.9	1.2	.0	.0		10.7	9.7	9.9	13.2	11.5	9.4
E	9.9	11.0	11.4	1.7	.0		34.1	13.2	40.3	37.5	31.3	14.8
SE	6.4	12.6	10.1	.1	1.4		30.6	15.2	28.0	30.1	30.7	39.1
S	3.7	4.5	2.0	.5	.0		10.7	10.8	11.9	10.3	5.7	14.8
SW	2.0	2.8	.5	.0	.0		5.2	9.7	2.2	5.9	10.4	6.3
W	.9	.9	.5	.0	.0		2.3	10.4	1.0	.0	2.1	9.4
NW	.0	1.9	.6	.0	.0		2.4	13.0	2.0	2.9	4.2	.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.9						.9	.0	1.0	.0	2.1	.0
TOT OBS	61	89	57	5	3	215		12.7	101	34	48	32
TOT PCT	28.4	41.4	26.5	2.3	1.4		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1876-1977

AREA 0014 TONGA ISLANDS GROUP
20.5S 174.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	17.8	44.6	27.7	6.9	2.0	.0	10.2	100.0	101
06&09	.0	.0	17.6	55.9	23.5	.0	2.9	17.9	100.0	34
12&15	2.1	4.2	41.7	35.4	14.6	2.1	.0	13.3	100.0	48
18&21	.0	3.1	31.3	53.1	9.4	3.1	.0	14.6	100.0	32
TOT	2	21	81	81	25	4	1	12.7		215
PCT	.9	9.8	37.7	37.7	11.6	1.9	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	3.0	.0		6.4
NE	2.6	1.7	4.1	2.6		4.9
E	3.9	5.6	13.4	7.5		5.4
SE	5.6	7.5	10.8	6.3		4.8
S	2.6	1.5	7.3	1.7		5.1
SW	.9	2.6	.9	1.7		4.5
W	.9	.0	1.7	.0		5.0
NW	.0	.0	1.9	.9		6.6
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	.0	.0		.0
TOT OBS	20	22	50	24	116	5.1
TOT PCT	17.2	19.0	43.1	20.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.9	
NE	.0	.0	.0	1.1	.0	2.2	.0	.0	.0	.0	7.8	
E	.0	.0	.0	5.0	8.0	1.9	3.2	.0	.0	.0	12.3	
SE	.0	.0	.0	3.7	7.5	2.8	.4	.0	.0	.0	15.7	
S	.0	.0	.9	.9	2.6	.0	1.5	.0	.0	.0	7.3	
SW	.0	.0	.0	.9	1.7	.0	.0	.0	.0	.0	3.4	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
NW	.9	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
TOT OBS	1	0	1	16	23	8	6	0	0	0	61	116
TOT PCT	.9	.0	.9	13.8	19.8	6.9	5.2	.0	.0	.0	52.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >8500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3000	3.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0
= OR >2000	8.4	11.8	11.8	11.8	11.8	11.8	11.8	11.8
= OR >1000	24.4	31.1	31.1	31.1	31.1	31.1	31.1	31.1
= OR >600	31.9	42.9	44.5	44.5	44.5	44.5	44.5	44.5
= OR >300	31.9	43.7	45.4	45.4	45.4	45.4	46.2	46.2
= OR >150	31.9	43.7	45.4	45.4	45.4	45.4	46.2	46.2
= OR > 0	31.9	43.7	45.4	45.4	46.2	46.2	47.1	47.1
TOTAL	38	52	54	54	55	55	56	56

TOTAL NUMBER OF OBS: 119 PCT FREQ NH <5/8: 52.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.1	11.6	14.0	15.5	8.5	11.6	10.9	7.8	16.3	.8	129

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1876-1977

AREA 0014 TONGA ISLANDS GROUP
20.5S 174.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.4	.0	.4	.1	.5	.0	.0	.1	.0	.0	1.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.4	.1	.5	.0	.0	.1	.0	.0	1.6	
5<10	PCP	.0	.5	3.6	.8	.4	.0	.5	.0	.0	.0	5.9	
	NO PCP	.0	1.9	6.6	4.9	2.0	.5	.5	.5	.0	.0	17.0	
	TOT %	.0	2.4	10.2	5.7	2.4	.5	1.1	.5	.0	.0	22.9	
10+	PCP	.0	.0	2.3	.4	.0	.0	.0	.0	.0	.0	2.7	
	NO PCP	2.0	7.2	20.6	25.3	8.6	4.9	1.6	1.6	.0	.5	72.3	
	TOT %	2.0	7.2	22.9	25.7	8.6	4.9	1.6	1.6	.0	.5	75.0	
	TOT OBS												188
	TOT PCT	2.4	9.6	33.5	31.5	11.6	5.5	2.7	2.8	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.5	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.5	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.4	.0	.4	.1	.0	.0	.0	.1	.0		1.1	
	TOT %	.4	.0	.4	.1	.5	.0	.0	.1	.0	.0	1.6	
5<10	0-3	.0	.0	1.1	.0	.5	.0	.0	.0	.0	.0	1.6	
	4-10	.0	1.3	4.3	.8	.0	.0	.5	.0	.0		6.9	
	11-21	.0	.5	4.0	3.2	.8	.5	.0	.0	.0		9.0	
	22+	.0	.5	.9	1.7	1.1	.0	.5	.5	.0		5.3	
	TOT %	.0	2.4	10.2	5.7	2.4	.5	1.1	.5	.0	.0	22.9	
10+	0-3	.5	1.3	2.8	.3	2.4	.7	.0	.0	.0	.5	8.5	
	4-10	.5	3.9	6.4	8.8	3.3	1.6	1.6	1.6	.0		27.7	
	11-21	.9	2.0	11.3	12.6	2.4	2.7	.0	.0	.0		31.9	
	22+	.0	.0	2.4	4.0	.5	.0	.0	.0	.0		6.9	
	TOT %	2.0	7.2	22.9	25.7	8.6	4.9	1.6	1.6	.0	.5	75.0	
	TOT OBS												188
	TOT PCT	2.4	9.6	33.5	31.5	11.6	5.5	2.7	2.8	.0	.5	100.0	

MAY

PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1876-1977

AREA 0014 TONGA ISLANDS GROUP
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	11.4	20.0	5.7	14.3	.0	.0	.0	51.4	48.6	35
06&09	.0	.0	3.2	16.1	16.1	12.9	.0	.0	.0	.0	48.4	51.6	31
12&15	3.4	.0	3.4	.0	10.3	6.9	3.4	.0	.0	.0	27.6	72.4	29
18&21	.0	.0	.0	24.1	27.6	.0	.0	.0	.0	.0	51.7	48.3	29
TOT	1	0	2	16	23	8	6	0	0	0	56	68	124
PCT	.8	.0	1.6	12.9	18.5	6.5	4.8	.0	.0	.0	45.2	54.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	1.2	17.4	81.4	86
06&09	.0	.0	.0	.0	21.2	78.8	33
12&15	2.3	2.3	.0	.0	39.5	55.8	43
18&21	.0	.0	.0	6.5	12.9	80.6	31
TOT	1	1	0	3	43	145	193
PCT	.5	.5	.0	1.6	22.3	75.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	11.8	41.2	47.1	34
06&09	.0	3.3	20.0	30.0	50.0	30
12&15	3.7	7.4	7.4	22.2	70.4	27
18&21	.0	.0	25.0	28.6	46.4	28
TOT	1	3	19	37	63	119
PCT	.8	2.5	16.0	31.1	52.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	1.2	.6	.0	3	1.8
80/84	.0	.0	.0	1.2	2.4	6.5	8.3	4.2	38	22.6
75/79	.0	.0	.0	1.2	4.8	21.4	14.9	11.3	90	53.6
70/74	.0	.0	.0	.6	6.0	7.7	2.4	5.4	37	22.0
TOTAL	0	0	0	5	22	62	44	35	168	100.0
PCT	.0	.0	.0	3.0	13.1	36.9	26.2	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	1.3	.4	.0	.0	.0	.0	.0	.0	.0
1.6	4.5	9.7	1.9	2.4	.6	.6	1.3	.0	.0
1.0	4.3	14.6	20.1	6.3	4.3	1.2	1.8	.0	.0
.0	.9	4.2	10.7	3.9	1.8	.0	.0	.0	.6
2.7	11.0	28.9	32.7	12.5	6.7	1.8	3.1	.0	.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	86	85	83	78	73	73	73	78.3	106
06&09	81	80	80	76	72	72	72	75.9	33
12&15	82	81	80	76	71	70	70	75.9	48
18&21	81	80	80	75	72	70	70	75.6	32
TOT	86	85	82	77	72	70	70	77.0	217

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.9	9.2	46.1	23.7	17.1	79	76
06&09	.0	3.2	16.1	35.5	22.6	22.6	79	31
12&15	.0	2.9	8.8	32.4	35.3	20.6	81	34
18&21	.0	.0	21.9	25.0	25.0	28.1	81	32
TOT	0	5	22	65	45	36	80	173

PERIOD: (PRIMARY) 1942-1977
(OVER-ALL) 1876-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.6	.0	1	.0	.6
3	.0	1.3	1.3	.0	.0	4	.0	2.6
2	.0	1.3	.6	.0	.0	3	.0	1.9
1	.0	.6	4.5	.6	.0	9	.0	5.8
0	.0	1.9	6.5	1.3	.6	16	.0	10.4
-1	.0	4.5	7.1	1.3	.0	20	.0	13.0
-2	1.3	7.8	5.2	1.3	.0	24	.0	15.6
-3	.6	7.8	6.5	.0	.0	23	.0	14.9
-4	1.9	4.5	4.5	.0	.0	17	.6	10.4
-5	.6	5.8	4.5	.0	.0	17	.0	11.0
-6	1.9	2.6	1.3	.0	.0	9	.0	5.8
-7/-8	1.3	1.9	1.3	.0	.0	7	.0	4.5
-9/-10	1.9	.6	.0	.0	.0	4	.0	2.6
TOTAL	15	63	67	8	1	154	1	153
PCT	9.7	40.9	43.5	5.2	.6	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.9	.9	.0	.0	1.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.4	.0	.0	.0	.0	3.4
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.1	2.6	.0	.0	.0	3.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	2.6	.0	.0	.0	7.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	5.1	.0	.0	.0	5.1
3-4	.0	3.1	3.4	.0	.0	.0	6.5
5-6	.0	.0	6.8	.0	.0	.0	6.8
7	.0	.0	3.1	4.0	.0	.0	7.1
8-9	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	1.7	.0	.0	.0	1.7
13-16	.0	.0	1.1	.9	1.1	.0	3.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	21.3	6.0	1.1	.0	31.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	2.8	.0	.0	.0	5.1
3-4	.0	1.4	6.8	1.1	.0	.0	9.4
5-6	.0	1.1	4.5	.0	.0	.0	5.7
7	.0	.0	2.6	4.0	.0	.0	6.5
8-9	.0	.0	3.4	.0	.0	.0	3.4
10-11	.0	.0	1.4	1.1	2.3	1.1	6.0
12	.0	.0	.6	.0	.0	.0	.6
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	22.2	6.5	2.3	1.1	36.9

PERIOD: (OVER-ALL) 1963-1977

MAY

AREA 0014 TONGA ISLANDS GROUP
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TABLE 1B (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	.0	.0	.0	.0	1.1
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	1.1	.0	1.1	.0	.0	2.3
5-6	.0	1.1	1.1	.0	1.1	.0	3.4
7	.0	.0	.0	1.1	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.9	.0	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.4	2.0	2.3	1.1	.0	9.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	.0	.0	.0	.0	2.3
3-4	.0	.0	4.5	.0	.0	.0	4.5
5-6	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	6.8	.0	.0	.0	9.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.0	.0	.0	.0	1.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	1.1	.0	.0	1.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.3	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	1.4	.0	.0	1.4	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.2	3.3	.0	.0	.0	.0	5.6	
1-2	.0	7.8	7.8	.0	.0	.0	15.6	
3-4	.0	7.8	17.8	2.2	.0	.0	27.8	
5-6	.0	2.2	14.4	1.1	1.1	.0	18.9	
7	.0	.0	5.6	8.9	.0	.0	14.4	
8-9	.0	.0	3.3	2.2	.0	.0	5.6	
10-11	.0	.0	2.2	1.1	2.2	1.1	6.7	
12	.0	.0	2.2	.0	.0	.0	2.2	
13-16	.0	.0	1.1	1.1	1.1	.0	3.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.2	21.1	54.4	16.7	4.4	1.1	100.0	90

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	1.7	7.7	9.4	.9	2.6	2.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	5
6-7	.0	.0	4.3	9.4	5.1	5.1	.0	2.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
8-9	.0	.0	.0	3.4	6.8	7.7	1.7	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	8
10-11	.0	.0	.0	.9	2.6	3.4	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
12-13	.0	.0	.0	.9	.9	1.7	.0	.9	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	10
>13	.0	.0	.0	.0	1.7	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
INDET	.9	.0	.0	.9	.0	.9	.0	.0	.9	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
TOTAL	1	2	14	29	21	25	8	6	9	2	0	0	0	0	0	0	0	0	0	117	7
PCT	.9	1.7	12.0	24.8	17.9	21.4	6.8	5.1	7.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1883-1977

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
N	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	33.3	.0	.0	.0	.0	.0	.0	66.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	5.8	.0	.0	.0	.0	.0	5.8	2.3	.0	.0	.0	.0	.0	.0	.0	91.9
SE	1.8	4.5	5.4	.0	.0	.0	.0	11.6	3.6	.0	.0	.0	.0	.0	.0	.0	84.8
S	3.7	.0	3.7	.0	.0	.0	.0	7.4	2.8	.0	.0	.0	.0	.0	.0	.0	89.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	96.2
W	14.3	25.0	.0	.0	.0	.0	.0	39.3	14.3	.0	.0	.0	.0	.0	.0	.0	46.4
NW	.0	5.6	.0	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	94.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	.0	66.7
TOT PCT	3.0	4.2	2.4	.0	.0	.0	.0	9.6	3.0	.6	.0	.0	.0	.0	.0	.0	87.3
TOT OBS:	166																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
00&03	2.3	8.0	2.3	.0	.0	.0	.0	12.6	1.1	.0	.0	.0	.0	.0	.0	.0	86.2
06&09	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	.0	92.9
12&15	4.2	.0	4.2	.0	.0	.0	.0	8.3	4.2	4.2	.0	.0	.0	.0	.0	.0	87.5
18&21	7.1	.0	3.6	.0	.0	.0	.0	10.7	3.6	.0	.0	.0	.0	.0	.0	.0	85.7
TOT PCT	3.0	4.2	2.4	.0	.0	.0	.0	9.6	3.0	.6	.0	.0	.0	.0	.0	.0	87.4
TOT OBS:	167																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	1.4	.0	.0	.0	.0		1.9	5.5	1.7	.0	3.7	.0	3.3	.0	.0	.0
NE	1.3	5.8	2.5	.0	.0	.0		9.6	7.7	7.5	.0	12.0	.0	9.2	.0	17.5	.0
E	2.5	9.4	12.7	3.0	.2	.0		27.9	12.7	30.0	.0	38.0	50.0	15.8	.0	21.7	.0
SE	2.1	11.1	13.1	6.5	.2	.0		33.1	14.2	32.1	.0	25.0	.0	39.2	.0	41.7	.0
S	2.1	4.4	8.2	1.0	.0	.0		15.7	11.8	15.0	.0	13.9	.0	25.0	.0	12.5	.0
SW	.5	1.3	2.6	.0	.0	.0		4.4	11.6	5.0	100.0	3.7	.0	4.2	.0	.0	.0
W	.5	1.2	1.2	.5	.0	.0		3.3	12.5	4.4	.0	2.8	50.0	.0	.0	.0	.0
NW	.0	2.0	.6	.0	.0	.0		2.6	7.7	4.4	.0	.9	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	.0	.0	.0	.0	3.3	.0	6.7	.0
TOT OBS	23	77	86	23	1	0	210		12.1	120	1	27	2	30	0	30	0
TOT PCT	11.0	36.7	41.0	11.0	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.4	.5	.0	.0	.0		1.9	9.5	1.7	3.4	3.3	.0
NE	5.1	4.5	.0	.0	.0		9.6	7.7	7.4	11.2	9.2	17.5
E	5.7	14.5	7.4	.2	.0		27.9	12.7	29.8	38.8	15.8	21.7
SE	6.1	14.4	10.0	2.6	.0		33.1	14.2	31.8	23.3	39.2	41.7
S	3.6	8.6	3.6	.0	.0		15.7	11.8	14.9	12.9	25.0	12.5
SW	.6	3.2	.6	.0	.0		4.4	11.6	5.8	3.4	4.2	.0
W	1.3	1.2	.4	.5	.0		3.3	12.5	4.3	6.0	.0	.0
NW	1.4	1.2	.0	.0	.0		2.6	7.7	4.3	.9	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	.0	.0	3.3	6.7
TOT OBS	56	101	46	7	0	210		12.1	121	29	30	30
TOT PCT	26.7	48.1	21.9	3.3	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1883-1977

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	.0	10.7	37.2	38.0	13.2	.8	.0	12.4	100.0	121
06609	.0	3.4	37.9	48.3	10.3	.0	.0	12.4	100.0	29
12615	3.3	13.3	30.0	43.3	10.0	.0	.0	12.1	100.0	30
18621	6.7	6.7	40.0	43.3	3.3	.0	.0	10.5	100.0	30
TOT	3	20	77	86	23	1	0	12.1		210
PCT	1.4	9.5	36.7	41.0	11.0	.5	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	2.0	.0		7.0
NE	2.2	4.7	2.0	.2		3.7
E	5.9	5.1	13.0	5.4		5.1
SE	5.9	5.4	13.5	12.0		5.6
S	2.7	3.2	4.7	2.9		4.7
SW	1.0	.2	1.2	.0		3.3
W	.7	.0	1.0	.7		5.4
NW	.2	.0	1.0	.2		5.0
VAR	.0	.0	.0	.0		.0
CALM	2.0	.0	.0	1.0		3.0
TOT OBS	21	19	39	23	102	5.0
TOT PCT	20.6	18.6	38.2	22.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	
NE	.0	.0	.0	.0	1.2	1.0	.0	.0	.0	.0	6.9	
E	.0	.0	.0	4.7	2.2	2.0	1.7	.0	.0	.0	18.9	
SE	.0	.0	2.0	4.2	8.3	2.9	.2	.0	.0	1.0	18.1	
S	.0	.0	1.0	.0	4.7	.0	2.0	.0	.0	.0	5.9	
SW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	2.2	
W	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.7	
NW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	0	0	3	10	20	6	4	0	0	1	58	102
TOT PCT	.0	.0	2.9	9.8	19.6	5.9	3.9	.0	.0	1.0	56.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5OYD	* OR >0
* OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
* OR >2000	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
* OR >1000	27.2	28.2	30.1	30.1	30.1	30.1	30.1	30.1
* OR >600	31.1	35.9	38.8	38.8	38.8	39.8	39.8	39.8
* OR >300	32.0	38.8	41.7	41.7	41.7	42.7	42.7	42.7
* OR >150	32.0	38.8	41.7	41.7	41.7	42.7	42.7	42.7
* OR > 0	32.0	38.8	41.7	41.7	41.7	42.7	42.7	42.7
TOTAL	33	40	43	43	43	44	44	44

TOTAL NUMBER OF OBS: 103 PCT FREQ NH <5/8: 57.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.8	10.9	21.0	13.4	12.6	10.1	8.4	6.7	16.0 .0	119

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1883-1977

AREA 0014 TONGA ISLANDS GROUP
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
2<5	PCP	.0	.0	.0	1.2	.6	.0	.6	.0	.0	.0	1.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	1.2	.6	.0	.0	.0	.0	.0	1.8	
5<10	PCP	.6	.0	.6	1.2	.6	.0	.0	.0	.0	.0	3.0	
	NO PCP	.0	1.2	1.7	2.0	1.8	.0	.6	.0	.0	.0	7.2	
	TOT %	.6	1.2	2.3	3.2	2.4	.0	.6	.0	.0	.0	10.2	
10+	PCP	.0	.0	.9	1.5	.0	.0	1.1	.2	.0	.0	3.6	
	NO PCP	1.2	8.3	22.9	27.9	13.3	3.9	2.0	2.6	.0	1.2	83.1	
	TOT %	1.2	8.3	23.8	29.4	13.3	3.9	3.0	2.7	.0	1.2	86.7	
	TOT OBS												166
	TOT PCT	1.8	9.5	26.1	33.7	16.3	3.9	4.2	2.7	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.6	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.6	.6	.0	.0	.0	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	1.2	.6	.0	.0	.0	.0	.0	1.8	
5<10	0-3	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	1.2	
	4-10	.6	.6	.6	.6	.6	.0	.0	.0	.0		3.0	
	11-21	.0	.0	1.1	.8	.6	.0	.6	.0	.0		3.0	
	22+	.0	.0	.6	1.8	.6	.0	.0	.0	.0		3.0	
	TOT %	.6	1.2	2.3	3.2	2.4	.0	.6	.0	.0	.0	10.2	
10+	0-3	.6	1.1	2.0	1.8	1.8	.6	.0	.0	.0	1.2	9.0	
	4-10	.6	4.7	9.2	12.8	4.1	.8	1.5	2.0	.0		35.5	
	11-21	.0	2.6	11.0	11.0	6.8	2.6	.9	.8	.0		35.5	
	22+	.0	.0	1.7	3.8	.6	.0	.6	.0	.0		6.6	
	TOT %	1.2	8.3	23.8	29.4	13.3	3.9	3.0	2.7	.0	1.2	86.7	
	TOT OBS												166
	TOT PCT	1.8	9.5	26.1	33.7	16.3	3.9	4.2	2.7	.0	1.8	100.0	

JUNE

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1883-1977

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.4	12.2	17.1	4.9	4.9	.0	.0	.0	41.5	58.5	41
06&09	.0	.0	.0	.0	7.7	3.8	3.8	.0	.0	.0	15.4	84.6	26
12&15	.0	.0	5.0	10.0	25.0	5.0	.0	.0	.0	5.0	50.0	50.0	20
18&21	.0	.0	3.7	11.1	22.2	7.4	3.7	.0	.0	.0	48.1	51.9	27
TOT	0	0	3	10	20	6	4	0	0	1	44	70	114
PCT	.0	.0	2.6	8.8	17.5	5.3	3.5	.0	.0	.9	38.6	61.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	1.1	2.3	10.3	86.2	87
06&09	.0	.0	.0	.0	7.1	92.9	28
12&15	.0	.0	.0	.0	16.7	83.3	24
18&21	3.6	.0	.0	3.6	7.1	85.7	28
TOT	1	0	1	3	17	145	167
PCT	.6	.0	.6	1.8	10.2	86.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OF CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.9	20.0	28.6	51.4	35
06&09	.0	.0	.0	16.7	83.3	24
12&15	.0	5.6	16.7	38.9	44.4	18
18&21	.0	7.7	19.2	30.8	50.0	26
TOT	0	4	15	29	59	103
PCT	.0	3.9	14.6	28.2	57.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.0	.6	.0	1	.6
80/84	.0	.0	.0	1.8	4.1	3.5	2.4	.0	20	11.8
75/79	.0	.0	.0	.0	6.5	16.5	18.8	11.2	90	52.9
70/74	.0	.0	.0	.6	7.6	14.1	6.5	5.9	59	34.7
TOTAL	0	0	0	4	31	58	48	29	170	100.0
PCT	.0	.0	.0	2.4	18.2	34.1	28.2	17.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.1	5.6	2.5	.0	.9	1.5	1.2	.0	.0
.6	8.7	16.9	14.7	6.8	2.4	1.0	1.9	.0	.0
.0	1.2	3.8	16.6	9.4	.7	1.0	.1	.0	1.8
1.2	10.0	26.3	33.8	16.2	4.0	3.5	3.2	.0	1.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	84	82	77	72	70	69	77.0	120
06&09	79	78	78	75	72	71	71	75.5	28
12&15	79	78	78	74	70	70	70	74.0	30
18&21	79	78	78	73	70	70	70	73.6	30
TOT	85	84	82	76	71	70	69	75.9	208

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.3	19.8	35.2	27.5	14.3	78	91
06&09	.0	.0	11.1	33.3	40.7	14.8	81	27
12&15	.0	4.0	28.0	24.0	24.0	20.0	77	25
18&21	.0	.0	10.7	39.3	25.0	25.0	81	28
TOT	0	4	31	58	49	29	79	171

JUNE

PERIOD: (PRIMARY) 1956-1977
(OVER-ALL) 1883-1977

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
6	.0	.8	.8	.0	.0	2	.0	1.6
3	.0	.0	1.6	.8	.8	4	.0	3.2
2	.0	.8	3.2	1.6	.0	7	.0	5.6
1	.0	4.0	3.2	.0	.0	9	.0	7.2
0	.8	4.0	8.8	.0	.0	17	.0	13.6
-1	.0	2.4	6.4	.0	.0	11	.0	8.8
-2	2.4	3.2	4.0	.0	.0	12	.0	9.6
-3	.8	11.2	4.0	.0	.0	20	.0	16.0
-4	4.0	5.6	1.6	.0	.0	14	.0	11.2
-5	2.4	6.4	1.6	.0	.0	13	.0	10.4
-6	3.2	2.4	1.6	.0	.0	9	.0	7.2
-7/-8	3.2	.8	.0	.0	.0	5	.0	4.0
-9/-10	.8	.8	.0	.0	.0	2	.0	1.6
TOTAL	22	53	46	3	1	125	0	125
PCT	17.6	42.4	36.8	2.4	.8	100.0		100.0

PERIOD: (OVER-ALL) 1969-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	1.4	.0	.0	.0	.0	2.8
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	1.4	.0	.0	.0	.0	2.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	.0	.0	.0	.0	.0	1.4
1-2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.4	2.8	.0	.0	.0	3.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	1.8	4.2	.0	.0	.0	7.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	1.1	.0	.0	.0	.0	2.5
1-2	.0	1.4	2.8	.0	.0	.0	4.2
3-4	.0	5.3	5.3	.0	.0	.0	10.6
5-6	.0	.0	.0	1.4	.0	.0	1.4
7	.0	.0	2.8	1.1	.0	.0	3.9
8-9	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	7.7	12.3	2.5	.0	.0	23.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	8.5	2.8	.0	.0	.0	11.3
3-4	.0	5.6	2.8	.0	.0	.0	8.1
5-6	.0	1.4	10.2	1.4	.0	.0	13.0
7	.0	.0	2.8	1.8	.0	.0	4.6
8-9	.0	.0	.0	1.4	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.3	18.3	4.6	.0	.0	40.1

PERIOD: (OVER-ALL) 1963-1977

JUNE

TABLE 1B (CONT)

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.4	4.6	.0	.0	.0	6.0	.0	1.4	3.2	.0	.0	.0	4.6
5-6	.0	.0	4.9	1.4	.0	.0	6.3	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	9.5	1.4	.0	.0	13.7	.0	1.4	3.5	.0	.0	.0	4.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4	
3-4	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.4	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	1.1	.0	.0	.0	1.1	.0	1.4	.4	.0	.0	.0	1.8	95.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	4.2	.0	.0	.0	.0	12.5	
1-2	1.4	13.9	5.6	.0	.0	.0	20.8	
3-4	.0	13.9	19.4	.0	.0	.0	33.3	
5-6	.0	1.4	15.3	4.2	.0	.0	20.8	
7	.0	.0	6.9	2.8	.0	.0	9.7	
8-9	.0	.0	1.4	1.4	.0	.0	2.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								72
TOT PCT	9.7	33.3	48.6	8.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1952-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<5	2.1	6.3	11.5	8.3	3.1	1.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	4
6-7	.0	1.0	5.3	1.0	4.2	4.2	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
8-9	.0	.0	1.0	5.2	6.3	7.3	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
10-11	.0	.0	.0	3.1	4.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
12-13	.0	.0	.0	.0	1.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	2.1	1.0	2.1	2.1	1.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
TOTAL	4	8	20	19	21	14	7	3	0	0	0	0	0	0	0	0	0	0	0	96	6
PCT	4.2	8.3	20.8	19.8	21.9	14.6	7.3	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1890-1977
(OVER-ALL) 1872-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	6.1	2.0	8.1	.0	.0	.0	.0	16.2	.0	2.0	.0	.0	4.0	.0	79.8
NE	1.3	.0	.0	.0	.0	.0	.0	1.3	2.6	1.3	.0	.0	2.6	.0	93.5
E	4.9	3.5	2.1	.0	.0	.0	.0	10.6	.0	.7	.0	.0	.0	.0	89.4
SE	5.5	5.0	1.7	.0	.0	.0	.0	12.1	2.2	.0	.0	.0	.0	.0	85.7
S	5.0	.0	3.4	.0	.0	.0	.0	8.4	.0	.0	.0	.0	.0	.0	91.6
SW	3.2	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	96.8
W	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	.0	88.2
NW	10.3	3.4	.0	.0	.0	.0	.0	13.8	6.9	10.3	.0	.0	.0	.0	79.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	5.9	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	94.1
TOT PCT	4.8	2.9	1.9	.0	.0	.0	.0	9.7	1.3	1.0	.0	.0	.6	.0	88.4
TOT OBS:	310														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00-03	5.3	3.3	2.6	.0	.0	.0	.0	11.3	.7	.7	.0	.0	1.3	.0	86.8
06-09	.0	2.7	2.7	.0	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	94.6
12-15	6.9	4.0	1.0	.0	.0	.0	.0	11.9	.0	3.0	.0	.0	.0	.0	88.1
18-21	3.8	.0	.0	.0	.0	.0	.0	3.8	11.5	.0	.0	.0	.0	.0	84.6
TOT PCT	5.1	3.2	1.9	.0	.0	.0	.0	10.2	1.3	1.3	.0	.0	.6	.0	87.9
TOT OBS:	315														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	6.7	1.6	.0	.0	.0		9.0	8.4	11.0	.0	8.9	.0	6.2	.0	3.7	.0
NE	1.5	7.7	2.2	.1	.0	.0		11.6	8.0	11.0	.0	11.3	66.7	10.5	.0	15.7	.0
E	1.5	14.6	5.9	1.3	.0	.0		23.3	10.2	24.4	.0	25.0	.0	20.5	100.0	22.2	.0
SE	2.8	10.6	10.5	3.9	.0	.0		27.8	12.6	28.5	.0	32.1	8.3	22.4	.0	39.8	.0
S	1.5	7.3	1.3	.0	.0	.0		10.0	7.4	11.7	.0	6.0	25.0	7.4	.0	10.2	.0
SW	1.4	3.2	.5	.7	.0	.0		5.9	9.2	5.2	.0	9.5	.0	7.4	.0	.9	.0
W	.6	2.4	.7	.0	.0	.0		3.1	9.6	3.8	.0	2.4	.0	1.9	.0	3.7	.0
NW	.5	2.5	1.2	.0	.0	.0		4.2	9.4	2.8	.0	2.4	.0	8.6	.0	3.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0	1.7	.0	2.4	.0	15.2	.0	.0	.0
TOT OBS	42	227	99	25	0	0	413		9.5	235	0	42	3	105	1	27	0
TOT PCT	15.0	55.0	24.0	6.1	.0	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	5.4	.5	.0	.0		9.0	8.4	11.0	8.3	6.1	3.7
NE	4.8	6.4	.4	.0	.0		11.6	8.0	11.0	15.0	10.4	15.7
E	6.2	13.7	3.2	.2	.0		23.3	10.2	24.4	23.3	21.2	22.2
SE	6.8	11.9	8.6	.5	.0		27.8	12.6	28.5	30.6	22.2	39.8
S	4.8	4.7	.5	.0	.0		10.0	7.4	11.7	7.2	7.3	10.2
SW	2.5	2.5	.3	.5	.0		5.9	9.2	5.2	8.9	7.3	.9
W	.7	2.4	.0	.0	.0		3.1	9.6	3.8	2.2	1.9	3.7
NW	1.2	2.6	.5	.0	.0		4.2	9.4	2.8	2.2	8.5	3.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	1.7	2.2	15.1	.0
TOT OBS	145	205	58	5	0	413		9.5	235	45	106	27
TOT PCT	35.1	49.6	14.0	1.2	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1890-1977
(OVER-ALL) 1872-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	11.9	64.3	18.7	3.4	.0	.0	8.7	100.0	235
06&09	2.2	.0	42.2	33.3	22.2	.0	.0	13.8	100.0	45
12&15	15.1	10.4	44.3	24.5	5.7	.0	.0	9.2	100.0	106
18&21	.0	7.4	37.0	51.9	3.7	.0	.0	11.4	100.0	27
TOT	21	41	227	99	25	0	0	9.5		413
PCT	5.1	9.9	55.0	24.0	6.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	3.4	.9	.0		3.8
NE	4.1	2.3	.9	2.8		4.0
E	6.2	2.5	6.2	8.3		5.0
SE	6.7	9.9	10.3	10.1		5.1
S	3.2	6.7	1.4	.0		3.6
SW	.9	2.8	2.3	.0		4.5
W	.0	.9	1.8	.0		5.0
NW	.0	.9	1.8	.9		5.7
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.9		8.0
TOT OBS	24	32	28	25	109	4.7
TOT PCT	22.0	29.4	25.7	22.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	
NE	.0	.0	.0	1.8	1.8	.0	.0	.0	.0	.0	6.4	
E	.0	.0	.0	4.1	2.8	1.6	.4	.0	.0	.0	13.8	
SE	.0	.0	.0	3.2	2.8	3.9	1.8	.9	.9	.0	23.4	
S	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	9.9	
SW	.0	.0	.0	.2	.9	.0	.2	.0	.0	.0	4.6	
W	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	.9	
NW	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	13	11	7	4	1	1	0	72	109
TOT PCT	.0	.0	.0	11.9	10.1	6.4	3.7	.9	.9	.0	66.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >3500	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
* OR >2000	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
* OR >1000	22.0	22.9	22.9	22.9	22.9	22.9	22.9	22.9
* OR >600	30.3	33.9	34.9	34.9	34.9	34.9	34.9	34.9
* OR >300	30.3	33.9	34.9	34.9	34.9	34.9	34.9	34.9
* OR >150	30.3	33.9	34.9	34.9	34.9	34.9	34.9	34.9
* OR > 0	30.3	33.9	34.9	34.9	34.9	34.9	34.9	34.9
TOTAL	33	37	38	38	38	38	38	38

TOTAL NUMBER OF OBS: 109 PCT FREQ NH <5/8: 66.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.0	9.5	17.5	16.7	17.5	4.0	7.1	3.7	15.1	.0	126

PERIOD: (PRIMARY) 1890-1977
(OVER-ALL) 1872-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
2<5	PCP	.0	.0	.6	.4	.3	.0	.0	.0	.0	.0	1.3	
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.6	.7	.3	.0	.0	.0	.0	.0	1.6	
5<10	PCP	1.3	.2	1.6	2.4	.2	.2	.0	.3	.0	.0	6.1	
	NO PCP	3.2	5.8	6.1	9.7	3.2	2.7	1.3	3.1	.0	4.8	40.0	
	TOT %	4.5	6.0	7.7	12.1	3.4	2.9	1.3	3.4	.0	4.8	46.1	
10+	PCP	.0	.0	.2	.7	.3	.0	.3	.0	.0	.3	1.9	
	NO PCP	3.5	6.5	14.3	15.7	5.6	2.1	1.1	1.0	.0	.3	50.0	
	TOT %	3.5	6.5	14.5	16.5	5.9	2.1	1.5	1.0	.0	.6	51.9	
	TOT OBS												310
	TOT PCT	8.0	12.4	22.8	29.3	9.6	5.0	2.7	4.7	.0	5.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.3	.0	.0	.0	.0		.6	
	11-21	.0	.0	.2	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.3	.3	.0	.0	.0	.0	.0		.6	
	TOT %	.0	.0	.6	.7	.3	.0	.0	.0	.0	.0	1.6	
5<10	0-3	.3	1.3	.8	2.1	.8	.8	.0	.3	.0	4.8	11.3	
	4-10	3.5	4.5	4.4	5.0	2.6	1.8	1.3	2.4	.0		25.5	
	11-21	.6	.0	2.4	3.7	.0	.0	.0	.6	.0		7.4	
	22+	.0	.2	.2	1.3	.0	.3	.0	.0	.0		1.9	
	TOT %	4.5	6.0	7.7	12.1	3.4	2.9	1.3	3.4	.0	4.8	46.1	
10+	0-3	.3	.6	.3	.1	.6	.0	.0	.3	.0	.6	2.9	
	4-10	2.5	3.6	9.3	5.2	3.6	1.7	.5	.3	.0		26.8	
	11-21	.6	2.2	4.0	7.8	1.7	.4	1.0	.3	.0		18.1	
	22+	.0	.0	.9	3.3	.0	.0	.0	.0	.0		4.2	
	TOT %	3.5	6.5	14.5	16.5	5.9	2.1	1.5	1.0	.0	.6	51.9	
	TOT OBS												310
	TOT PCT	8.0	12.4	22.8	29.3	9.6	5.0	2.7	4.7	.0	5.5	100.0	

JULY

PERIOD: (PRIMARY) 1890-1977
(OVER-ALL) 1872-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	9.4	15.6	.0	3.1	.0	3.1	.0	31.3	68.8	32
06&09	.0	.0	.0	5.4	2.7	2.7	5.4	2.7	.0	.0	18.9	81.1	37
12&15	.0	.0	.0	11.5	11.5	11.5	3.8	.0	.0	.0	38.5	61.5	26
18&21	.0	.0	.0	20.0	8.0	12.0	4.0	.0	.0	.0	44.0	56.0	25
TOT	0	0	0	13	11	7	5	1	1	0	38	82	120
PCT	.0	.0	.0	10.8	9.2	5.8	4.2	.8	.8	.0	31.7	68.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	1.3	50.3	48.3	151
06&09	.0	.0	.0	5.4	8.1	86.5	37
12&15	.0	.0	1.0	1.0	64.4	33.7	101
18&21	.0	.0	.0	.0	11.5	88.5	26
TOT	0	0	1	5	147	182	315
PCT	.0	.0	.3	1.6	46.7	51.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	14.8	25.9	59.3	27
06&09	.0	.0	6.1	15.2	78.8	33
12&15	.0	.0	12.5	29.2	58.3	24
18&21	.0	.0	20.0	24.0	56.0	25
TOT	0	0	14	35	70	109
PCT	.0	.0	12.8	32.9	64.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.5	2.0	2.5	3.0	.5	17	8.5
75/79	.0	.0	.0	2.5	3.5	11.5	12.5	7.5	75	37.5
70/74	.0	.0	1.0	3.0	8.0	10.5	11.0	10.5	88	44.0
65/69	.0	.0	.0	1.0	3.0	1.0	2.0	2.5	19	9.5
60/64	.0	.0	.0	.0	.0	.0	.5	.0	1	.5
TOTAL	0	0	2	14	33	51	58	42	200	100.0
PCT	.0	.0	1.0	7.0	16.5	25.5	29.0	21.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.0	1.6	4.0	.9	.0	.0	1.0	.0	.0	.0
2.6	5.8	10.6	13.0	3.5	.5	.8	.8	.0	.0
2.0	2.3	14.6	14.8	4.8	2.1	1.0	1.5	.0	1.0
.0	.0	.0	5.0	1.9	1.6	.0	1.0	.0	.0
.0	.0	.4	.1	.0	.0	.0	.0	.0	.0
5.6	9.6	29.6	33.8	10.1	4.3	2.8	3.3	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	83	82	81	76	72	69	69	76.2	238
06&09	80	79	79	74	69	67	67	73.7	44
12&15	83	80	79	74	69	68	68	74.1	107
18&21	77	76	76	74	66	63	63	72.3	27
TOT	83	82	80	75	69	67	63	75.1	416

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	9.5	13.7	30.5	29.5	16.8	78	95
06&09	.0	10.0	17.5	17.5	32.5	22.5	79	40
12&15	.0	2.4	22.0	29.3	26.8	19.5	79	41
18&21	.0	12.0	16.0	12.0	24.0	36.0	80	25
TOT	0	17	33	51	58	42	78	201

JULY

PERIOD: (PRIMARY) 1890-1977
(OVER-ALL) 1872-1977

AREA 0014 TONGA ISLANDS GROUP
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.0	.0	.4	.4	2	.0	.7
6	.0	.0	.0	.0	.4	.0	1	.0	.4
4	.0	.0	.0	.0	.7	.7	4	.0	1.5
3	.0	.0	.0	1.5	2.2	.0	10	.0	3.7
2	.0	.0	.0	1.1	3.3	1.5	16	.0	5.9
1	.0	.0	.0	6.3	4.4	.7	31	.0	11.5
0	.0	.0	.7	7.4	8.9	.4	47	.0	17.4
-1	.0	.0	1.5	7.4	3.7	.0	34	.0	12.6
-2	.0	.0	2.2	8.5	1.1	.4	33	.0	12.2
-3	.0	.4	6.3	5.2	1.5	.0	36	.0	13.3
-4	.0	.0	6.3	2.6	.4	.0	25	.0	9.3
-5	.0	.7	2.6	1.1	.7	.0	14	.0	5.2
-6	.0	.4	.7	1.1	.0	.0	6	.0	2.2
-7/-8	.0	1.1	1.5	.4	.0	.0	8	.0	3.0
-9/-10	.0	.7	.0	.0	.0	.0	2	.0	.7
TOTAL	0	9	59	115	75	12	270	0	270
PCT	.0	3.3	21.9	42.6	27.8	4.5	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	1.2	1.2	.0	.0	.0	.0	2.4
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.4	1.2	.0	.0	.0	5.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	2.7	.0	.0	.0	.0	2.7
3-4	.0	1.5	1.5	.0	.0	.0	3.0
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	3.0	.0	.0	.0	8.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.8	.0	.0	.0	.0	5.8
3-4	.0	2.1	5.5	.0	.0	.0	7.6
5-6	.0	1.2	4.3	.0	.0	.0	5.5
7	.0	.0	1.8	1.2	.0	.0	3.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.1	11.6	4.1	.0	.0	22.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	3.0	3.7	.0	.0	.0	6.7
3-4	.0	4.9	4.3	2.4	.0	.0	11.6
5-6	.0	.0	8.2	.0	.0	.0	8.2
7	.0	.0	2.7	1.2	.0	.0	4.0
8-9	.0	1.2	2.4	.0	.0	.0	3.7
10-11	.0	.0	.0	2.4	.0	.0	2.4
12	.0	.0	.0	1.2	.0	.0	1.2
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.5	21.3	7.6	.0	.0	38.4

PERIOD: (OVER-ALL) 1963-1977

JULY

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.9	1.2	.0	.0	.0	3.4
1-2	.0	.9	1.2	.0	.0	.0	2.1
3-4	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	1.8	.0	.0	.0	1.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	1.8	5.2	.0	.0	.0	8.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	2.4	1.2	.0	.0	.0	3.7
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	1.2	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	1.5	1.2	.0	.0	7.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.2	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.7	.0	.0	.0	3.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	1.2	.0	.0	.0	1.2	
5-6	.0	.0	2.4	.0	.0	.0	2.4	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	3.7	.0	.0	.0	3.7	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	3.7	1.2	.0	.0	.0	7.3	
1-2	.0	15.9	6.1	.0	.0	.0	22.0	
3-4	1.2	12.2	14.6	2.4	.0	.0	30.5	
5-6	.0	1.2	22.0	.0	.0	.0	23.2	
7	.0	.0	4.9	3.7	.0	.0	8.5	
8-9	.0	1.2	2.4	.0	.0	.0	3.7	
10-11	.0	.0	.0	2.4	.0	.0	2.4	
12	.0	.0	.0	1.2	.0	.0	1.2	
13-16	.0	.0	.0	1.2	.0	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	34.1	51.2	11.0	.0	.0	100.0	82

PERIOD: (OVER-ALL) 1952-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	6.9	15.8	7.9	5.9	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	4
6-7	.0	.0	6.9	9.9	4.0	2.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
8-9	.0	.0	.0	3.0	4.0	3.0	3.0	1.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	15	9
10-11	.0	.0	.0	.0	3.0	.0	.0	1.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
12-13	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
>13	.0	.0	.0	1.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDET	1.0	2.0	1.0	3.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
TOTAL	2	9	24	25	19	9	5	2	3	2	1	0	0	0	0	0	0	0	0	101	6
PCT	2.0	8.9	23.8	24.8	18.8	8.9	5.0	2.0	3.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1890-1977
(OVER-ALL) 1869-1977

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	9.1	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	90.9
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	97.7
E	1.4	2.8	.0	.0	.0	.0	.0	4.3	1.4	.0	.7	.0	.0	.0	.0	93.5
SE	1.2	7.4	1.5	.0	.0	.0	.0	9.8	.0	.0	.0	.0	.0	.0	.0	90.2
S	2.1	4.1	5.9	.0	.0	.0	.0	10.2	2.1	.0	.0	.0	.0	.0	.0	87.7
SW	.0	0.0	.0	.0	.0	.0	.0	6.0	6.0	.0	.0	.0	.0	.0	.0	88.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	85.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.5	3.6	1.5	.0	.0	.0	.0	6.6	1.5	.0	.4	.0	.0	.0	.0	91.6
TOT OBS:	274															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.5	1.5	.8	.0	.0	.0	.0	3.8	.8	.0	.0	.0	.0	.0	.0	95.4
06&09	.0	3.7	3.7	.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	.0	.0	92.6
12&15	.0	4.3	1.1	.0	.0	.0	.0	5.4	2.2	.0	2.2	.0	.0	.0	.0	90.3
18&21	6.9	10.3	3.4	.0	.0	.0	.0	20.7	3.4	.0	.0	.0	.0	.0	.0	75.9
TOT PCT	1.4	3.0	1.4	.0	.0	.0	.0	6.4	1.4	.0	.7	.0	.0	.0	.0	91.4
TOT OBS:	280															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	2.0	1.0	.0	.0	.0		3.7	8.0	4.4	.0	6.9	.0	2.5	.0	.0	.0
NE	1.7	5.2	1.3	.1	.0	.0		8.3	8.1	9.8	.0	6.0	.0	6.5	.0	6.3	.0
E	1.2	14.2	10.0	1.0	.3	.0		26.8	11.2	29.9	.0	20.7	.0	23.0	.0	22.7	.0
SE	2.2	15.9	11.8	3.1	.0	.0		33.1	11.6	31.4	.0	39.7	.0	35.3	.0	32.8	.0
S	1.3	8.1	5.8	.5	.0	.0		15.6	10.4	14.7	.0	14.7	.0	16.8	.0	19.5	.0
SW	1.0	2.2	1.2	.2	.0	.0		4.7	8.8	3.6	.0	3.4	.0	5.0	.0	12.5	.0
W	.0	2.5	.3	.6	.0	.0		3.3	10.0	3.3	.0	8.6	.0	1.0	.0	6.3	.0
NW	.3	1.2	.3	.3	.0	.0		2.0	9.5	2.0	.0	.0	.0	3.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	.9	.0	.0	.0	7.0	.0	.0	.0
TOT OBS	41	196	121	22	1	0	381		10.4	220	0	29	0	100	0	32	0
TOT PCT	10.8	51.4	31.8	5.8	.3	.0		100.0		100.0	.0	100.0	.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	2.2	.0	.0	.0		3.7	8.0	4.4	6.9	2.5	.0
NE	2.9	5.1	.3	.1	.0		8.3	8.1	9.8	6.0	6.5	6.3
E	4.6	17.7	3.7	.7	.0		26.8	11.2	29.9	20.7	23.0	22.7
SE	6.4	19.2	7.5	.0	.0		33.1	11.6	31.4	39.7	35.3	32.8
S	4.3	9.3	2.0	.0	.0		15.6	10.4	14.7	14.7	16.8	19.5
SW	1.6	2.6	.5	.0	.0		4.7	8.8	3.6	3.4	5.0	12.5
W	1.6	1.2	.5	.0	.0		3.3	10.0	3.3	8.6	1.0	6.3
NW	1.0	.7	.0	.3	.0		2.0	9.5	2.0	.0	3.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	.9	.0	7.0	.0
TOT OBS	100	221	56	4	0	381		10.4	220	29	100	32
TOT PCT	26.2	58.0	14.7	1.0	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1890-1977
(OVER-ALL) 1849-1977

AREA 001+ TONGA ISLANDS GROUP
20.3S 174.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	10.9	53.6	28.2	5.9	.5	.0	10.1	100.0	220
06&09	.0	.0	27.6	58.6	13.8	.0	.0	14.1	100.0	29
12&15	7.0	8.0	60.0	22.0	3.0	.0	.0	9.0	100.0	100
18&21	.0	.0	31.3	62.5	6.3	.0	.0	13.7	100.0	32
TOT	9	32	196	121	22	1	0	10.4		381
PCT	2.4	8.4	51.4	31.8	5.8	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	1.0	1.0	.0		4.0
NE	1.2	.2	1.2	.7		4.5
E	2.7	4.7	11.1	4.2		5.3
SE	7.4	3.5	12.9	9.4		5.3
S	6.2	6.9	1.5	3.2		3.6
SW	1.7	3.5	1.2	1.2		4.3
W	2.5	3.0	1.7	.0		2.8
NW	.0	3.0	.0	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	2.0	.0	.0	.0		2.0
TOT OBS	25	26	31	19	101	4.6
TOT PCT	24.8	25.7	30.7	18.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	
NE	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	3.2	
E	.0	.0	.0	1.7	5.9	3.0	.0	.0	.0	.0	12.1	
SE	.0	.0	1.0	7.2	6.4	3.2	1.0	.0	.0	.0	14.4	
S	.0	.0	.0	.0	2.0	1.7	.0	.0	.0	.0	14.1	
SW	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	6.2	
W	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	6.4	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	0	0	1	9	17	8	1	0	0	0	65	101
TOT PCT	.0	.0	1.0	8.9	16.8	7.9	1.0	.0	.0	.0	64.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >2000	8.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
= OR >1000	21.4	26.2	26.2	26.2	26.2	26.2	26.2	26.2
= OR >600	28.2	35.0	35.0	35.0	35.0	35.0	35.0	35.0
= OR >300	29.1	35.9	35.9	35.9	35.9	35.9	35.9	35.9
= OR >150	29.1	35.9	35.9	35.9	35.9	35.9	35.9	35.9
= OR > 0	29.1	35.9	35.9	35.9	35.9	35.9	35.9	35.9
TOTAL	30	37	37	37	37	37	37	37

TOTAL NUMBER OF OBS: 103 PCT FREQ NH <5/8: 64.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.2	9.0	25.2	11.7	10.8	5.4	7.2	9.9	13.5	.0	111

PERIOD: (PRIMARY) (1890-197)
(OVER-ALL) (1869-197)

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	1.1	1.5	.5	.4	.0	.0	.0	.0	3.6	
	NO PCP	2.0	4.9	12.9	14.8	6.7	2.6	1.1	1.1	.0	1.8	47.8	
	TOT %	2.0	4.9	14.0	16.4	7.2	2.9	1.1	1.1	.0	1.8	51.5	
10+	PCP	.4	.0	.0	1.4	1.2	.0	.0	.0	.0	.0	2.9	
	NO PCP	1.6	2.9	11.1	14.9	8.7	3.2	2.6	1.5	.0	.7	45.3	
	TOT %	2.0	2.9	11.1	14.2	9.9	3.2	2.6	1.5	.0	.7	48.2	
	TOT OBS												274
	TOT PCT	4.0	8.0	25.3	30.7	17.1	6.1	3.7	2.6	.0	2.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.2	.2	.0	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.5	.5	.9	1.6	.7	1.5	.0	.4	.0	1.8	8.0	
	4-10	1.1	3.8	8.4	9.9	4.6	1.5	1.1	.7	.0		31.0	
	11-21	.4	.5	3.8	4.7	1.9	.0	.0	.0	.0		11.3	
	22+	.0	.1	.8	.2	.0	.0	.0	.0	.0		1.1	
	TOT %	2.0	4.9	14.0	16.4	7.2	2.9	1.1	1.1	.0	1.8	51.5	
10+	0-3	.4	1.1	.7	.7	1.1	.0	.0	.0	.0	.7	4.7	
	4-10	.9	1.2	4.8	6.2	3.9	1.2	1.5	.7	.0		20.4	
	11-21	.7	.6	5.2	7.3	4.5	1.7	.4	.4	.0		20.8	
	22+	.0	.0	.4	.0	.4	.3	.8	.4	.0		2.2	
	TOT %	2.0	2.9	11.1	14.2	9.9	3.2	2.6	1.5	.0	.7	48.2	
	TOT OBS												274
	TOT PCT	4.0	8.0	25.3	30.7	17.1	6.1	3.7	2.6	.0	2.6	100.0	

PERIOD: (PRIMARY) 1890-1977
(OVER-ALL) 1849-1977

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.3	6.7	13.3	3.3	3.3	.0	.0	.0	30.0	70.0	30
06&09	.0	.0	.0	11.5	19.2	.0	.0	.0	.0	.0	30.8	69.2	26
12&15	.0	.0	.0	8.3	12.5	8.3	.0	.0	.0	.0	29.2	70.8	24
18&21	.0	.0	.0	7.1	17.9	21.4	.0	.0	.0	.0	46.4	53.6	28
TOT	0	0	1	9	17	9	1	0	0	0	37	71	108
PCT	.0	.0	.9	8.3	15.7	8.3	.9	.0	.0	.0	34.3	65.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	55.0	45.0	131
06&09	.0	.0	.0	.0	11.1	88.9	27
12&15	.0	2.2	.0	.0	68.8	29.0	93
18&21	.0	.0	.0	.0	17.2	82.8	29
TOT	0	6	0	0	144	134	280
PCT	.0	.7	.0	.0	51.4	47.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NX) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50VB	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.8	11.5	23.1	65.4	26
06&09	.0	.0	12.0	20.0	68.0	25
12&15	.0	.0	8.3	20.8	70.8	24
18&21	.0	.0	7.1	39.3	53.6	28
TOT	0	1	10	27	66	103
PCT	.0	1.0	9.7	26.2	64.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.7	2.6	.7	.7	7	4.6
75/79	.0	.0	.0	1.3	2.0	4.6	17.2	4.0	44	29.1
70/74	.0	.0	.0	5.3	9.9	18.5	14.6	6.6	83	55.0
65/69	.0	.0	.0	.7	4.6	2.0	1.3	1.3	15	9.9
60/64	.0	.0	.0	.0	.7	.0	.0	.7	2	1.3
TOTAL	0	0	0	11	27	42	51	20	151	100.0
PCT	.0	.0	.0	7.3	17.9	27.8	33.8	13.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	.8	2.5	.8	.0	.0	.0	.0	.0	.0
2.5	3.1	8.9	5.6	5.0	.0	1.3	1.3	.0	1.3
.7	1.0	11.9	25.2	9.1	4.0	2.5	.7	.0	.0
.0	.2	1.2	2.0	4.5	1.0	.5	.0	.0	.7
.0	.0	.0	.0	.7	.7	.0	.0	.0	.0
3.6	5.1	24.5	33.6	19.2	5.6	4.3	2.0	.0	2.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	83	82	80	75	68	64	62	74.5	218
06&09	78	77	77	73	69	69	69	72.8	29
12&15	79	78	78	73	67	66	66	72.8	103
18&21	78	77	77	71	68	66	66	71.4	33
TOT	83	81	79	74	68	66	62	73.6	383

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.5	17.9	26.9	38.8	11.9	78	67
06&09	.0	7.7	19.2	30.8	26.9	15.4	77	26
12&15	.0	10.0	16.7	26.7	33.3	13.3	76	30
18&21	.0	10.0	16.7	26.7	33.3	13.3	76	30
TOT	0	11	27	42	53	20	77	153

PERIOD: (PRIMARY) 1890-1977
(OVER-ALL) 1859-1977

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.4	.9	3	.0	1.3
5	.0	.0	.0	.0	.4	.0	1	.0	.4
4	.0	.0	.0	.4	.9	.0	3	.0	1.3
3	.0	.0	.0	1.3	.4	.0	4	.0	1.7
2	.0	.0	.0	3.4	1.7	.0	12	.0	5.2
1	.0	.0	.9	3.9	4.3	.0	21	.4	8.6
0	.0	.0	2.1	3.4	7.3	.0	30	.0	12.9
-1	.0	.0	3.9	6.4	2.1	.0	29	.0	17.4
-2	.0	.0	6.9	7.7	.4	.0	35	.4	14.6
-3	.0	.4	7.7	4.7	.4	.0	31	.0	13.3
-4	.0	.4	8.2	3.0	.4	.0	28	.0	12.0
-5	.0	1.3	3.0	1.3	.4	.0	14	.0	6.0
-6	.0	.9	1.3	.9	.0	.0	7	.0	3.0
-7/-8	.9	2.1	1.7	.4	.0	.0	12	.0	5.2
-9/-10	.0	.0	1.3	.0	.0	.0	3	.0	1.3
TOTAL	2		86		45			2	231
		12		86		2	233		
PCT	.9	5.2	37.0	36.9	19.3	.9	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.6	.0	.0	.0	1.6
3-4	.0	1.6	.0	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	1.6	.0	.0	.0	3.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.4	.0	.0	.0	.8
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.4	.0	.4
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	2.4	.4	.0	.0	3.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.0	6.0	.0	.0	.0	11.9
3-4	.0	.0	3.2	.0	.0	.0	3.2
5-6	.0	.0	4.0	.0	.0	.0	4.0
7	.0	.0	3.2	.0	.0	.0	3.2
8-9	.0	.0	.0	1.6	.0	.0	1.6
10-11	.0	.0	1.2	.0	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	1.6	.0	.0	1.6
23-25	.0	.0	.0	1.2	.0	.0	1.2
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.0	17.5	2.8	1.6	.0	27.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.0	.4	.0	.0	.0	2.4
3-4	.0	3.2	7.9	.0	.0	.0	11.1
5-6	.0	.0	7.9	.0	.0	.0	7.9
7	.0	1.6	.0	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	16.7	.0	.0	.0	23.4

PERIOD: (OVER-ALL) 1963-1977

AUGUST

TABLE 18 (CONT)

AREA 0014 TONGA ISLANDS GROUP
20.3S 174.7W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.4	1.3	.0	.0	.0	5.6
3-4	.0	1.6	4.4	.0	.0	.0	6.0
5-6	.0	.0	3.6	.0	.0	.0	3.6
7	.0	.0	1.6	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.6	.0	.0	1.6
12	.0	.0	1.6	.0	.0	.0	1.6
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.0	12.9	1.6	.0	.0	19.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	1.6	3.6	.4	.0	.0	5.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	3.6	.8	.0	.0	9.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	3.2	.0	1.2	.0	.0	4.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.2	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	.0	2.4	.0	.0	8.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	1.6	.0	.0	.0	.0	1.6	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	1.6	.0	.0	.0	1.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.6	1.6	.0	.0	.0	3.2	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	1.6	.0	.0	.0	.0	4.7	
1-2	.0	17.2	9.4	.0	.0	.0	26.6	
3-4	.0	12.5	20.3	1.6	.0	.0	34.4	
5-6	.0	.0	15.6	.0	.0	.0	15.6	
7	.0	1.6	4.7	.0	.0	.0	6.3	
8-9	.0	.0	1.6	3.1	.0	.0	4.7	
10-11	.0	.0	1.6	1.6	.0	.0	3.1	
12	.0	.0	1.6	.0	.0	.0	1.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	1.6	.0	1.6	
23-25	.0	.0	.0	1.6	.0	.0	1.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.1	32.8	54.7	7.8	1.6	.0	100.0	64

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.4	13.6	5.7	2.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	4
6-7	.0	.0	2.3	18.2	8.0	5.7	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	6
8-9	.0	.0	2.3	2.3	3.4	2.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
10-11	.0	1.1	.0	1.1	1.1	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
12-13	.0	.0	.0	.0	.0	3.4	1.1	.0	2.3	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	8	13
>13	.0	.0	.0	.0	1.1	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	.0	.0	1.1	.0	1.1	.0	1.1	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
TOTAL	0	4	17	24	15	15	5	3	3	0	1	0	1	0	0	0	0	0	0	88	7
PCT	.0	4.5	19.3	27.3	17.0	17.0	5.7	3.4	3.4	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1965-1977
(OVER-ALL) 1872-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.7	8.7	.0	.0	.0	.0	.0	17.4	.0	.0	.0	.0	.0	.0	.0	82.6
NE	5.9	5.9	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	.0	.0	88.2
E	5.2	4.8	3.0	.0	.0	.0	.0	12.1	1.0	.0	.0	.0	.0	.0	.0	86.9
SE	6.1	7.0	4.5	.0	.0	.0	.0	17.5	1.1	.0	1.1	.0	.0	.0	.0	80.2
S	3.2	5.1	2.5	.0	.0	.0	.0	10.8	.0	.0	.0	.0	.0	.0	.0	89.2
SW	6.6	6.6	.0	.0	.0	.0	.0	13.1	.0	.0	6.6	.0	.0	.0	.0	80.3
W	15.4	.0	.0	.0	.0	.0	.0	15.4	.0	.0	.0	.0	11.5	.0	.0	73.1
NW	.0	19.0	.0	.0	.0	.0	.0	19.0	.0	.0	.0	.0	4.8	.0	.0	76.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	80.0
TOT PCT	5.8	5.8	2.7	.0	.0	.0	.0	14.0	.7	.0	.7	.0	.3	.0	.0	84.2
TOT OBS	292															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.0	4.7	3.0	.0	.0	.0	.0	10.7	.7	.0	.7	.0	.7	.0	.0	87.3
06&09	4.0	4.0	8.0	.0	.0	.0	.0	12.0	4.0	.0	4.0	.0	.0	.0	.0	80.0
12&15	6.7	11.2	3.4	.0	.0	.0	.0	21.3	.0	.0	.0	.0	.0	.0	.0	78.7
18&21	11.1	2.8	.0	.0	.0	.0	.0	13.9	.0	.0	.0	.0	.0	.0	.0	86.1
TOT PCT	5.7	6.3	2.7	.0	.0	.0	.0	14.3	.7	.0	.7	.0	.3	.0	.0	84.0
TOT OBS	300															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.4	.6	.0	.0	.0		2.4	7.4	2.3	.0	3.3	.0	3.2	.0	.0	.0
NE	1.2	5.0	2.3	.1	.0	.0		8.6	8.3	10.2	.0	3.3	.0	5.4	.0	12.5	.0
E	2.5	18.7	11.7	1.9	.0	.0		34.7	10.7	35.0	75.0	35.8	.0	36.0	.0	26.3	100.0
SE	2.7	14.2	11.1	1.3	.0	.0		29.3	10.6	27.5	25.0	23.3	.0	32.0	.0	38.8	.0
S	2.2	6.6	3.6	.5	.0	.0		12.9	9.0	13.7	.0	10.8	.0	10.5	.0	16.4	.0
SW	.7	1.9	2.6	.8	.0	.0		6.0	11.9	4.2	.0	20.0	.0	6.5	.0	3.9	.0
W	.6	1.1	.7	.0	.0	.0		2.4	7.1	2.7	.0	.0	.0	2.7	.0	2.0	.0
NW	.9	.5	.6	.0	.0	.0		2.1	7.8	2.9	.0	3.3	.0	.5	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.4	.0	.0	.0	3.2	.0	.0	.0
TOT OBS	48	186	125	17	0	0	376		9.9	213	1	30	0	93	0	38	1
TOT PCT	12.8	49.5	33.2	4.5	.0	.0		100.0		100.0	100.0	100.0	.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	.6	.1	.0	.0		2.4	7.4	2.3	3.3	3.2	.0
NE	4.5	3.1	1.0	.0	.0		8.6	8.3	10.2	3.3	5.4	12.2
E	12.5	13.0	8.9	.3	.0		34.7	10.7	35.2	35.8	36.0	26.2
SE	8.4	15.6	5.3	.0	.0		29.3	10.6	27.5	23.3	32.0	37.8
S	5.5	5.5	1.9	.0	.0		12.9	9.0	13.7	10.8	10.5	16.0
SW	1.5	3.2	1.3	.0	.0		6.0	11.9	4.2	20.0	6.5	3.8
W	1.5	.9	.0	.0	.0		2.4	7.1	2.7	.0	2.7	1.9
NW	1.2	.3	.5	.0	.0		2.1	7.8	2.9	3.3	.5	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.4	.0	3.2	.0
TOT OBS	144	159	72	1	0	376		9.9	214	30	93	39
TOT PCT	38.3	42.3	19.1	.3	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1872-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	1.4	14.5	49.5	29.4	5.1	.0	.0	9.7	100.0	214
06607	.0	3.3	40.0	50.0	6.7	.0	.0	11.6	100.0	30
12612	3.2	9.7	54.8	30.1	2.2	.0	.0	9.2	100.0	93
18621	.0	2.6	43.6	48.7	5.1	.0	.0	12.0	100.0	39
TOT	6	42	186	125	17	0	0	9.9		376
PCT	1.6	11.2	49.5	33.2	4.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.0	.0		6.0
NE	3.2	2.0	1.5	2.0		4.3
E	6.9	10.6	7.4	7.7		4.6
SE	4.0	5.9	12.4	8.7		5.4
S	2.7	2.2	5.2	3.4		5.2
SW	.2	2.2	2.2	3.0		5.8
W	.7	.7	.0	1.7		5.4
NW	.0	1.0	.0	.2		4.8
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.0	.0		2.0
TOT OBS	19	25	30	27	101	5.0
TOT PCT	18.8	24.8	29.7	26.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	6.7	
E	.0	.0	.0	2.0	2.0	1.7	.0	1.0	.0	.0	26.9	
SE	.0	.0	.0	2.9	7.2	1.2	.0	.0	.0	.0	20.0	
S	.0	.0	.0	2.5	3.5	1.0	.0	.0	.0	.0	6.7	
SW	.0	.0	.0	1.0	1.2	.0	2.0	.0	.0	.0	3.5	
W	.0	.0	.0	.7	.0	1.0	.0	.0	.0	.0	1.5	
NW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
TOT OBS	0	0	0	11	15	5	2	1	0	0	67	101
TOT PCT	.0	.0	.0	10.9	14.9	5.0	2.0	1.0	.0	.0	66.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	1.9	1.9	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	3.8	5.8	6.7	6.7	6.7	6.7	6.7	6.7
* OR >1000	13.5	19.2	21.2	21.2	21.2	21.2	21.2	21.2
* OR >600	22.1	28.8	32.7	32.7	32.7	32.7	32.7	32.7
* OR >300	22.1	28.8	32.7	32.7	32.7	32.7	32.7	32.7
* OR >150	22.1	28.8	32.7	32.7	32.7	32.7	32.7	32.7
* OR > 0	22.1	28.8	32.7	32.7	32.7	32.7	32.7	32.7
TOTAL	23	30	34	34	34	34	34	34

TOTAL NUMBER OF OBS: 104 PCT FREQ NH <5/8: 67.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.5	10.8	18.9	13.5	18.9	4.5	4.5	6.3	18.0	.0	111

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1872-1977

AREA 0014 TONGA ISLANDS GROUP
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.3	.7	.0	.0	.0	.0	.0	.0	1.0	
1<2	PCP	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.0	.0	.3	.1	.6	.3	.0	.0	.0	.0	1.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.1	.6	.3	.0	.0	.0	.0	1.4	
5<10	PCP	.3	.7	3.2	3.5	.9	.3	.0	.0	.0	.0	8.9	
	NO PCP	.9	3.6	17.0	10.5	3.8	1.5	.5	1.4	.0	1.0	40.2	
	TOT %	1.2	4.3	20.2	14.0	4.6	1.9	.5	1.4	.0	1.0	49.1	
10+	PCP	.0	.3	.3	1.8	.0	.0	.0	.3	.0	.3	2.7	
	NO PCP	.8	4.1	12.7	14.6	8.3	3.0	1.4	.1	.0	.3	45.4	
	TOT %	.8	4.5	13.0	16.1	8.3	3.0	1.4	.4	.0	.7	48.1	
	TOT OBS												291
	TOT PCT	2.0	8.8	34.2	30.8	13.6	5.2	1.9	1.8	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.0	.3	.7	.0	.0	.0	.0	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.3	.1	.6	.3	.0	.0	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.1	.6	.3	.0	.0	.0	.0	1.4	
5<10	0-3	.2	.3	.7	1.4	.5	.3	.2	.9	.0	1.0	5.5	
	4-10	.9	3.1	11.7	8.4	2.4	.2	.3	.2	.0		27.1	
	11-21	.2	.9	7.1	3.9	1.4	1.0	.0	.3	.0		14.8	
	22+	.0	.0	.7	.3	.3	.3	.0	.0	.0		1.7	
	TOT %	1.2	4.3	20.2	14.0	4.6	1.9	.5	1.4	.0	1.0	49.1	
10+	0-3	.0	1.0	2.0	1.2	1.5	.4	.3	.0	.0	.7	7.2	
	4-10	.4	2.0	5.3	7.2	4.6	1.6	.8	.4	.0		22.3	
	11-21	.3	1.5	4.6	7.2	2.0	.6	.3	.0	.0		16.5	
	22+	.0	.0	1.0	.4	.3	.3	.0	.0	.0		2.1	
	TOT %	.8	4.5	13.0	16.1	8.3	3.0	1.4	.4	.0	.7	48.1	
	TOT OBS												291
	TOT PCT	2.0	8.8	34.2	30.8	13.6	5.2	1.9	1.8	.0	1.7	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1945-1977
(OVER-ALL) 1872-1977

AREA 0014 TONGA ISLANDS GROUP
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	3.4	13.8	3.4	.0	3.4	.0	.0	24.1	75.9	29
06&09	.0	.0	.0	21.7	17.4	.0	.0	.0	.0	.0	39.1	60.9	23
12&15	.0	.0	.0	4.8	14.3	14.3	9.5	.0	.0	.0	42.9	57.1	21
18&21	.0	.0	.0	13.9	11.1	2.8	.0	.0	.0	.0	27.8	72.2	36
TOT	0	0	0	12	15	5	2	1	0	0	35	74	109
PCT	.0	.0	.0	11.0	13.8	4.6	1.8	.9	.0	.0	32.1	67.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.3	.7	.0	47.3	50.7	150
06&09	.0	.0	.0	4.0	12.0	84.0	25
12&15	.0	1.1	.0	1.1	79.5	18.2	88
18&21	.0	.0	.0	5.6	5.6	88.9	36
TOT	0	3	1	4	146	145	299
PCT	.0	1.0	.3	1.3	48.8	48.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.6	7.1	21.4	71.4	28
06&09	.0	.0	22.7	18.2	59.1	22
12&15	.0	.0	11.1	33.3	55.6	18
18&21	.0	.0	16.7	11.1	72.2	36
TOT	0	1	15	20	69	104
PCT	.0	1.0	14.4	19.2	66.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.0	.6	.0	1	.6
80/84	.0	.0	.0	1.1	1.1	4.6	3.4	.6	19	10.9
75/79	.0	.0	.6	2.3	2.9	13.7	13.7	8.6	73	41.7
70/74	.0	.0	.0	2.3	6.9	13.1	10.3	8.0	71	40.6
65/69	.0	.0	.0	.0	.6	1.7	3.4	.6	11	6.3
TOTAL	0	0	1	10	20	58	55	31	175	100.0
PCT	.0	.0	.6	5.7	11.4	33.1	31.4	17.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.4	.0	.0	.0	.0	.0
.0	1.1	5.0	2.6	1.6	.0	.0	.0	.0	.6
1.7	6.6	15.1	8.4	5.4	1.1	1.4	1.3	.0	.6
.0	.0	10.3	13.9	8.3	6.1	2.0	.0	.0	.0
.0	.0	1.7	3.1	1.4	.0	.0	.0	.0	.0
1.7	7.7	32.1	28.1	17.1	7.3	3.4	1.3	.0	1.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	83	81	75	69	66	65	74.8	219
06&09	80	79	79	73	70	69	69	73.9	30
12&15	81	80	78	73	67	66	66	72.7	95
18&21	79	78	78	73	68	67	67	73.3	39
TOT	85	83	80	74	68	66	65	74.1	383

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	11.8	16.5	37.6	24.7	9.4	75	85
06&09	.0	.0	10.3	31.0	27.6	31.0	82	29
12&15	.0	.0	11.5	23.1	46.2	19.2	81	26
18&21	.0	5.1	.0	33.3	38.5	23.1	92	39
TOT	0	12	20	60	56	31	79	179

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1872-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.4	1	.0	.4
11/13	.0	.0	.0	.0	.4	1	.4	.0
7/8	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.0	.4	.8	3	.0	1.2
4	.0	.0	.0	.8	.4	3	.0	1.2
3	.0	.0	.4	.8	.4	4	.0	1.6
2	.0	.0	1.6	1.2	.8	9	.0	3.6
1	.0	1.2	5.9	2.0	.0	23	.0	9.1
0	.0	1.6	11.1	3.6	.0	41	.0	16.2
-1	.0	4.3	10.7	3.2	.4	47	.0	18.6
-2	.0	6.7	7.5	2.0	.4	42	.0	16.6
-3	1.6	6.7	6.3	.4	.4	39	.4	15.0
-4	2.0	3.2	1.2	.4	.0	17	.0	6.7
-5	2.4	2.0	2.0	.0	.4	17	.0	6.7
-6	.0	1.2	.4	.0	.0	4	.0	1.6
-7/-8	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	15		119		13		2	251
		69		37		253		
PCT	5.9	27.3	47.0	14.6	5.1	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.7	.0	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.7	.0	.0	.0	1.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	5.0	3.3	.0	.0	.0	8.3
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	5.4	.0	.0	.0	12.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	8.8	.0	.0	.0	10.4
3-4	.0	3.3	5.8	.0	.0	.0	9.2
5-6	.0	.0	3.3	1.7	.0	.0	5.0
7	.0	.0	1.3	1.7	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	1.7	.0	.0	.0	1.7
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	20.8	3.3	.0	.0	29.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.4	4.6	.0	.0	.0	10.0
3-4	.0	3.3	4.6	.0	.0	.0	7.9
5-6	.0	5.0	2.1	.0	.0	.0	7.1
7	.0	.0	3.8	1.7	.0	.0	5.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.8	15.0	1.7	.0	.0	30.4

PERIOD: (OVER-ALL) 1963-1977 SEPTEMBER AREA 0014 TONGA ISLANDS GROUP

TABLE 18 (CONT) 20.4S 174.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.2	1.7	.0	.0	.0	5.8
3-4	.0	.0	5.8	.0	.0	.0	5.8
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	8.8	.0	.0	.0	12.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.3	.0	.0	.0	.0	3.3
1-2	.0	.8	1.7	.0	.0	.0	2.5
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	1.7	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	2.1	1.7	.0	.0	7.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	1.3	.0	.0	.0	2.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.7	.0	.0	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.0	.0	.0	.0	1.7

HGT	TOTAL PCT
<1	.0
1-2	.0
3-4	1.7
5-6	.0
7	.0
8-9	.0
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	4.8	.0	.0	.0	.0	8.1	
1-2	.0	19.4	19.4	.0	.0	.0	38.7	
3-4	.0	8.1	19.4	.0	.0	.0	27.4	
5-6	.0	4.8	8.1	1.6	.0	.0	14.5	
7	.0	.0	4.8	4.8	.0	.0	9.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	1.6	.0	.0	.0	1.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.2	37.1	53.2	6.5	.0	.0	100.0	62

PERIOD: (OVER-ALL) 1950-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	10.2	10.2	4.5	5.7	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	4
6-7	.0	1.1	5.7	14.8	6.8	2.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
8-9	.0	.0	3.4	1.1	8.0	3.4	2.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	7
10-11	.0	.0	.0	2.3	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
12-13	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
>13	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	.0	.0	4.5	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
TOTAL	2	10	21	20	19	7	3	4	1	1	0	0	0	0	0	0	0	0	0	88	5
PCT	2.3	11.4	23.9	22.7	21.6	8.0	3.4	4.5	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1872-1977

AREA 0014 TONGA ISLANDS GROUP
20.5S 174.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.3		.0	86.7
NE	5.4	4.3	.0	.0	.0	.0	.0	9.8	.0	.0	.0	.0	4.3		.0	85.9
E	.7	6.8	3.0	.0	.0	.0	.0	10.5	.0	.0	.5	.0	.9		.0	88.2
SE	1.9	3.7	2.6	.0	.0	.0	.0	8.2	3.7	.0	.5	.0	.0		.0	87.6
S	3.2	11.2	.0	.0	.0	.0	.0	14.4	.0	.0	.0	.0	.0		.0	85.6
SW	.0	13.8	.0	.0	.0	.0	.0	13.8	.0	.0	.0	.0	.0		.0	86.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	18.2	.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0		.0	81.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.0	5.7	2.0	.0	.0	.0	.0	9.7	1.3	.0	.3	.0	1.0		.0	87.6
TOT OBS:	298															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00-03	1.4	3.0	1.4	.0	.0	.0	.0	6.4	.0	.0	.0	.0	2.9		.0	90.7
06-09	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0		.0	95.8
12-15	1.0	11.0	3.0	.0	.0	.0	.0	15.0	2.0	.0	1.0	.0	.0		.0	82.0
18-21	8.1	2.7	2.7	.0	.0	.0	.0	13.5	2.7	.0	.0	.0	.0		.0	83.8
TOT PCT	2.0	5.6	2.0	.0	.0	.0	.0	9.6	1.3	.0	.3	.0	1.3		.0	87.4
TOT OBS:	301															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	1.3	.5	.2	.0	.0		3.0	8.2	3.7	.0	.0	75.0	1.6	.0	1.9	50.0
NE	1.5	3.0	3.1	.0	.0	.0		7.7	9.4	8.3	.0	8.7	25.0	8.3	.0	.6	50.0
E	.4	19.1	15.7	1.7	.0	.0		37.0	11.6	36.8	.0	39.4	.0	40.1	.0	29.4	.0
SE	2.8	11.2	15.5	2.8	1.3	.0		33.7	13.4	31.8	.0	45.2	.0	31.4	.0	43.8	.0
S	1.3	4.8	5.0	.3	.0	.0		11.4	10.6	10.9	.0	6.7	.0	10.1	.0	20.6	.0
SW	.4	1.0	1.3	.0	.0	.0		2.6	10.3	3.1	.0	.0	.0	3.2	.0	.6	.0
W	.1	1.0	.3	.2	.0	.0		1.6	9.5	2.7	.0	.0	.0	.5	.0	.0	.0
NW	.1	.9	.6	.1	.0	.0		1.7	11.8	2.0	.0	.0	.0	1.1	.0	3.1	.0
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.5	.0	.0	.0	3.7	.0	.0	.0
TOT OBS	34	160	159	20	5	0	378		11.6	201	0	26	1	109	0	40	1
TOT PCT	9.0	42.3	42.1	5.3	1.3	.0		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.3	1.3	.4	.0	.0		3.0	8.2	3.7	2.8	1.6	3.0
NE	2.1	5.0	.6	.0	.0		7.7	9.4	8.3	9.3	8.3	1.8
E	8.2	20.0	8.5	.2	.0		37.0	11.6	36.8	38.0	40.1	28.7
SE	6.1	17.5	7.5	2.7	.0		33.7	13.4	31.8	43.5	31.4	42.7
S	3.4	5.8	2.2	.0	.0		11.4	10.6	10.9	6.5	10.1	20.1
SW	.9	1.3	.5	.0	.0		2.6	10.3	3.1	.0	3.2	.6
W	1.1	.0	.5	.0	.0		1.6	9.5	2.7	.0	.5	.0
NW	.3	.9	.5	.0	.0		1.7	11.8	2.0	.0	1.1	3.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.5	.0	3.7	.0
TOT OBS	93	196	78	11	0	378		11.6	201	27	109	41
TOT PCT	24.6	51.9	20.6	2.9	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.5	7.5	48.8	38.8	4.0	.5	.0	11.0	100.0	201
06&09	.0	.0	29.6	59.3	7.4	3.7	.0	14.3	100.0	27
12&15	3.7	12.8	41.3	35.8	5.5	.9	.0	10.6	100.0	109
18&21	.0	.0	22.0	63.4	9.8	4.9	.0	15.6	100.0	41
TOT	5	29	160	159	20	5	0	11.6		378
PCT	1.3	7.7	42.3	42.1	5.3	1.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.6	1.0	.0		3.9
NE	.8	2.0	3.0	2.0		5.5
E	6.9	7.7	11.6	6.9		4.9
SE	8.5	6.9	10.8	13.0		5.2
S	4.7	1.0	5.5	2.2		4.7
SW	.4	.8	.2	.4		4.6
W	.0	.0	1.4	.0		6.5
NW	.8	.0	.4	.0		2.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	29	24	43	31	127	5.0
TOT PCT	22.8	18.9	33.9	24.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000-149	150-299	300-599	600-999	1000-1999	2000-3499	3500-4999	5000-6499	6500-7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
NE	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	5.9	
E	.0	.0	.8	1.4	6.9	.8	.0	.0	.0	.0	23.2	
SE	.8	.0	.0	4.3	8.1	4.3	.4	.8	.0	.0	20.5	
S	.0	.0	.0	2.8	.6	2.0	1.2	.0	.0	.0	6.9	
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.6	
W	.0	.0	.0	.0	.6	.0	.0	.8	.0	.0	.0	
NW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	1	0	1	11	23	9	2	2	0	0	78	127
TOT PCT	.8	.0	.8	8.7	18.1	7.1	1.6	1.6	.0	.0	61.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >3500	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	9.4	10.2	10.2	10.2	10.2	10.2	10.2	10.2
* OR >1000	23.4	28.1	28.1	28.1	28.1	28.1	28.1	28.1
* OR >600	28.9	35.9	36.7	36.7	36.7	36.7	36.7	36.7
* OR >300	29.7	36.7	37.5	37.5	37.5	37.5	37.5	37.5
* OR >150	29.7	36.7	37.5	37.5	37.5	37.5	37.5	37.5
* OR > 0	30.5	37.5	38.3	38.3	38.3	38.3	38.3	38.3
TOTAL	39	48	49	49	49	49	49	49

TOTAL NUMBER OF OBS: 128 PCT FREQ NH <5/8: 61.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.1	13.0	18.3	10.7	16.8	6.1	9.2	10.7	12.2	.0	131

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.0	.4	3.2	1.9	1.2	.3	.0	.3	.0	.0	7.4	
	NO PCP	1.2	3.4	15.8	12.4	3.0	.3	.3	.7	.0	1.3	38.9	
	TOT %	1.2	3.8	19.0	14.8	4.2	.7	.3	1.0	.0	1.3	46.3	
10+	PCP	.0	.0	.7	.7	.3	.0	.0	.0	.0	.0	1.7	
	NO PCP	1.3	3.6	17.2	20.1	6.0	1.8	.6	.8	.0	.0	51.3	
	TOT %	1.3	3.6	17.9	20.7	6.3	1.8	.6	.8	.0	.0	53.0	
	TOT OBS												298
	TOT PCT	2.5	7.7	36.8	35.9	10.5	2.4	.9	1.8	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.3	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
5<10	0-3	.7	.8	.2	2.2	1.0	.5	.2	.2	.0	1.3	7.0	
	4-10	.5	1.9	13.2	6.4	2.2	.0	.2	.2	.0		24.5	
	11-21	.0	1.0	5.5	4.8	1.0	.2	.0	.7	.0		13.1	
	22+	.0	.0	.2	1.5	.0	.0	.0	.0	.0		1.7	
	TOT %	1.2	3.8	19.0	14.8	4.2	.7	.3	1.0	.0	1.3	46.3	
10+	0-3	.3	.7	.3	1.3	.0	.0	.0	.0	.0	.0	2.7	
	4-10	.3	1.1	5.5	4.9	2.2	.8	.3	.7	.0		15.8	
	11-21	.7	1.8	10.3	11.2	3.8	.9	.0	.1	.0		28.9	
	22+	.0	.0	1.8	3.3	.3	.0	.3	.1	.0		5.7	
	TOT %	1.3	3.6	17.9	20.7	6.3	1.8	.6	.8	.0	.0	53.0	
	TOT OBS												298
	TOT PCT	2.5	7.7	36.8	35.9	10.5	2.4	.9	1.8	.0	1.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	.0	5.7	14.3	5.7	.0	5.7	.0	.0	31.4	68.6	35
06609	.0	.0	.0	4.2	25.0	.0	.0	.0	.0	.0	29.2	70.8	24
12615	3.0	.0	3.0	9.1	18.2	9.1	.0	.0	.0	.0	42.4	57.6	33
18621	.0	.0	.0	13.2	15.8	10.5	5.3	.0	.0	.0	44.7	55.3	38
TOT	1	0	1	11	23	9	2	2	0	0	49	81	130
PCT	.8	.0	.8	8.5	17.7	6.9	1.5	1.5	.0	.0	37.7	62.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	.0	.7	.7	47.1	51.4	140
06609	.0	.0	.0	.0	8.3	91.7	24
12615	.0	.0	.0	.0	68.0	32.0	100
18621	.0	.0	.0	2.7	8.1	89.2	37
TOT	0	0	1	2	139	159	301
PCT	.0	.0	.3	.7	46.2	52.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	.0	8.6	25.7	65.7	35
06609	.0	.0	4.2	25.0	70.8	24
12615	3.0	6.1	15.2	27.3	57.6	33
18621	.0	.0	13.9	33.3	52.8	36
TOT	1	2	14	36	76	128
PCT	.8	1.6	10.9	28.1	60.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.6	.6	.0	.0	2	1.1
85/89	.0	.0	.0	1.1	1.1	1.7	.0	.6	8	4.6
80/84	.0	.0	.6	.6	2.9	6.3	4.0	1.1	27	15.4
75/79	.0	.0	.0	2.3	2.3	11.4	12.6	6.3	61	34.9
70/74	.0	.0	.0	1.1	7.4	12.6	11.4	6.9	69	39.4
65/69	.0	.0	.0	1.1	.6	.6	1.1	.6	7	4.0
60/64	.0	.0	.0	.0	.0	.0	.0	.6	1	.6
TOTAL	0	0	1	11	26	58	51	28	175	100.0
PCT	.0	.0	.6	6.3	14.9	33.1	29.1	16.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.6	.0	.0	.0	.0	.0	.0	.6	.0	.0
.3	.4	1.4	1.3	.0	.0	1.1	.0	.0	.0
.0	.1	6.9	6.3	1.6	.6	.0	.0	.0	.0
.9	5.7	13.7	10.4	1.7	1.1	.4	.9	.0	.0
.6	.6	11.0	19.1	7.3	.9	.0	.0	.0	.0
.0	.0	.0	2.3	1.3	.4	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.6	.0	.0
2.3	6.9	33.0	39.4	11.9	3.0	1.6	2.0	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	90	88	84	76	70	69	69	76.6	203
06609	83	82	82	75	71	70	70	75.5	26
12615	82	79	77	73	69	60	60	73.3	108
18621	86	85	77	73	69	67	67	73.5	39
TOT	90	86	82	75	70	67	60	75.3	376

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	11.4	19.0	38.0	17.7	13.9	75	79
06609	.0	.0	12.0	32.0	48.0	8.0	80	25
12615	.0	2.7	8.1	24.3	40.5	24.3	82	37
18621	.0	5.6	13.9	33.3	27.8	19.4	80	36
TOT	0	12	26	59	51	29	78	177

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.0	.4	.4	2	.0	.8
5	.0	.0	.0	.0	.4	.4	.0	.8	4	.0	1.6
4	.0	.0	.0	.0	.4	1.2	.0	.0	4	.0	1.6
3	.0	.0	.0	.0	.0	2.4	.8	.0	8	.0	3.2
2	.0	.0	.0	.0	2.0	4.4	.4	.0	17	.0	6.9
1	.0	.0	.0	.0	4.0	4.8	.4	.0	23	.0	9.3
0	.0	.0	.0	.4	8.1	3.6	.4	.4	32	.0	12.9
-1	.0	.0	.0	1.2	12.5	4.0	.0	.0	44	.0	17.7
-2	.0	.0	.0	3.6	7.3	1.6	.0	.0	31	.0	12.5
-3	.0	.0	.0	6.0	6.9	1.2	.0	.0	35	.0	14.1
-4	.0	.0	.8	4.8	3.6	.8	.0	.0	25	.4	9.7
-5	.0	.0	.4	1.2	2.4	.0	.0	.0	10	.0	4.0
-6	.0	.0	.0	1.6	1.2	.0	.0	.0	7	.0	2.8
-7/-8	.4	.0	.0	1.6	.4	.0	.0	.0	6	.0	2.4
TOTAL	1	0	3	51	122	61	6	4	248	1	247
PCT	.4	.0	1.2	20.6	49.2	24.6	2.4	1.6	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.0	.0	.0	.0	.0	1.2
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	.0	1.8	.0	.0	.0	3.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.0	.0	.0	.0	.0	1.2
1-2	.0	1.2	2.4	.0	.0	.0	3.6
3-4	.0	1.5	.3	.0	.0	.0	1.8
5-6	.0	.0	3.9	.0	.0	.0	3.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.5	.0	.0	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	2.7	8.1	.0	.0	.0	12.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	1.2	.0	.0	.0	3.3
1-2	.0	3.6	.9	.0	.0	.0	4.5
3-4	.0	1.8	3.6	.0	.0	.0	5.4
5-6	.0	3.6	5.1	2.1	.0	.0	10.8
7	.0	.0	5.7	.9	.0	.0	6.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.9	.0	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.1	17.5	3.0	.0	.0	31.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	3.6	5.1	.0	.0	.0	8.7
3-4	.0	3.9	1.2	.0	.0	.0	5.1
5-6	.0	.0	8.4	1.5	.0	.0	9.9
7	.0	.0	2.7	.3	1.2	.0	4.2
8-9	.0	.0	1.2	3.6	.0	.0	4.8
10-11	.0	.0	.0	1.2	.0	.0	1.2
12	.0	.0	.0	1.2	.0	.0	1.2
13-16	.0	.0	.0	3.6	.0	.0	3.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.8	18.7	11.4	1.2	.0	39.2

PERIOD: (OVER-ALL) 1963-1977 OCTOBER AREA 0014 TONGA ISLANDS GROUP

TABLE 18 (CONT) 20.5S 174.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.0	1.2	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.2	4.2	.0	.0	.0	5.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	5.4	.0	.0	.0	7.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	1.2	.0	.0	.0	2.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.9	.0	.0	.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	1.5	.3	.0	.0	3.0

HGT	TOTAL PCT
<1	.0
1-2	1.2
3-4	1.2
5-6	.0
7	.3
8-9	.3
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	3.6	1.2	.0	.0	.0	7.2	
1-2	.0	10.8	9.6	.0	.0	.0	20.5	
3-4	.0	7.2	8.4	.0	.0	.0	15.7	
5-6	.0	4.8	21.7	3.6	.0	.0	30.1	
7	.0	.0	9.6	1.2	1.2	.0	12.0	
8-9	.0	.0	1.2	4.8	.0	.0	6.0	
10-11	.0	.0	2.4	1.2	.0	.0	3.6	
12	.0	.0	.0	1.2	.0	.0	1.2	
13-16	.0	.0	.0	3.6	.0	.0	3.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.4	26.5	54.2	15.7	1.2	.0	100.0	83

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.7	11.1	9.3	2.8	2.8	.9	.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	5
6-7	.0	.0	1.9	7.4	8.3	.9	7.4	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	8
8-9	.0	.0	.0	6.5	6.5	2.8	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
10-11	.0	.9	.0	2.8	.9	2.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
12-13	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	2.8	2.8	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
TOTAL	0	8	17	31	21	10	12	3	6	0	0	0	0	0	0	0	0	0	0	108	6
PCT	.0	7.4	15.7	28.7	19.4	9.3	11.1	2.8	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1880-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT Ob TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	10.5	.0	.0	.0	.0	.0	.0	10.5	.0	.0	15.8	.0	.0		.0	73.7
NE	2.8	5.5	2.8	.0	.0	.0	.0	10.1	.0	.0	5.5	.0	.0		.0	84.4
E	4.9	6.9	6.0	.0	.0	.0	.0	17.0	2.3	.0	.0	.0	.0		.0	80.7
SE	6.1	4.1	1.2	.0	.0	.0	.0	11.3	2.9	.0	.0	.0	.0		.0	85.8
S	6.4	.0	.0	.0	.0	.0	.0	6.4	5.5	3.7	.0	.0	.0		.0	84.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	28.6	.0	.0	.0	.0	.0	28.6	14.3	.0	.0	.0	.0		.0	57.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0		.0	87.5
TOT PCT	5.4	5.0	2.7	.0	.0	.0	.0	12.7	2.7	.4	1.2	.0	.0		.0	83.1
TOT OBS:	260															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT Ob TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.6	5.6	1.9	.0	.0	.0	.0	13.0	.0	.0	1.9	.0	.0		.0	85.2
06&09	6.7	4.4	4.4	.0	.0	.0	.0	13.3	6.7	.0	.0	.0	.0		.0	80.0
12&15	6.3	6.3	3.1	.0	.0	.0	.0	15.6	2.1	1.0	2.1	.0	.0		.0	79.2
18&21	.0	.0	.0	.0	.0	.0	.0	.0	6.9	.0	.0	.0	.0		.0	93.1
TOT PCT	5.4	5.0	2.5	.0	.0	.0	.0	12.6	2.9	.4	1.4	.0	.0		.0	83.1
TOT OBS:	278															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	2.7	.3	.0	.0	.0		3.8	6.1	5.0	.0	4.2	.0	2.7	.0	.0	.0
NE	.5	4.9	3.8	.4	.0	.0		9.5	10.6	8.2	.0	9.4	.0	11.3	.0	11.6	.0
E	2.4	15.0	14.8	3.2	.6	.0		37.1	12.7	42.7	.0	38.0	.0	32.1	.0	22.3	50.0
SE	.4	12.7	15.2	3.3	.0	.0		31.6	13.5	28.0	.0	32.8	100.0	30.8	.0	48.2	50.0
S	.9	6.8	1.9	.3	.0	.0		10.0	8.5	9.0	.0	10.9	.0	11.0	.0	10.7	.0
SW	.0	.5	.4	.1	.0	.0		1.0	12.6	.7	.0	.5	.0	.0	.0	7.1	.0
W	.0	.3	.9	.2	.0	.0		1.5	16.7	1.8	.0	2.1	.0	1.1	.0	.0	.0
NW	.0	.9	1.3	.3	.0	.0		2.5	13.2	2.7	.0	2.1	.0	3.3	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	2.0	.0	.0	.0	7.7	.0	.0	.0
TOT OBS	26	143	123	25	2	0	319		11.8	150	0	48	1	91	0	28	1
TOT PCT	8.2	44.8	38.6	7.8	.6	.0		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.7	1.1	.0	.0	.0		3.8	6.1	5.0	4.1	2.7	.0
NE	2.5	5.6	1.3	.1	.0		9.5	10.6	8.2	9.2	11.3	11.2
E	8.9	16.1	10.1	1.6	.3		37.1	14.7	42.7	37.2	32.1	23.3
SE	5.1	15.4	9.6	1.4	.0		31.6	13.5	28.0	34.2	30.8	48.3
S	3.8	5.6	.5	.0	.0		10.0	8.5	9.0	10.7	11.0	10.3
SW	.0	.9	.0	.1	.0		1.0	12.6	.7	.5	.0	6.9
W	.3	.6	.3	.2	.0		1.5	16.7	1.8	2.0	1.1	.0
NW	.9	.6	.9	.0	.0		2.5	13.2	2.7	2.0	3.3	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	2.0	.0	7.7	.0
TOT OBS	87	147	73	11	1	319		11.8	150	49	91	29
TOT PCT	27.3	46.1	22.9	3.4	.3		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1965-1977
(OVER-ALL) 1880-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00609	2.0	6.7	50.7	33.3	6.0	1.3	.0	11.5	100.0	150
06609	.0	4.1	34.7	53.1	8.2	.0	.0	13.3	100.0	49
12615	7.7	2.2	49.5	30.8	9.9	.0	.0	10.9	100.0	91
18621	.0	6.9	17.2	65.5	10.3	.0	.0	13.3	100.0	29
TOT	10	16	143	123	25	2	0	11.8		319
PCT	3.1	5.0	44.8	38.6	7.8	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.8	.8	.0		5.5
NE	1.9	2.1	4.2	1.1		4.8
E	3.8	5.5	10.9	6.5		5.4
SE	9.7	6.9	20.4	4.4		4.7
S	1.3	3.2	4.0	4.0		5.3
SW	.2	1.1	.0	.0		5.3
W	.0	.6	1.7	.0		5.5
NW	.0	.8	.0	2.5		6.7
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	.0	.0		1.0
TOT OBS	21	25	50	23	119	5.0
TOT PCT	17.6	21.0	42.0	19.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
NE	.0	.0	.0	.8	1.1	.0	.0	.0	.0	.8	6.5	
E	1.5	.0	.8	.0	4.4	3.8	.8	.0	.0	.0	14.5	
SE	1.1	.0	.8	3.6	6.3	1.5	.0	.0	.0	.0	28.2	
S	.0	.0	.0	.6	.8	1.5	.0	.0	.0	.8	8.6	
SW	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.3	
W	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	.6	
NW	.0	.0	.0	.0	1.7	.8	.0	.0	.0	.0	.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
TOT OBS	3	0	2	6	19	10	1	0	1	2	75	119
TOT PCT	2.5	.0	1.7	5.0	16.0	8.4	.8	.0	.8	1.7	63.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >50YD	≥ OR >0
≥ OR >6500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
≥ OR >5000	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
≥ OR >3500	3.2	3.2	3.2	3.2	4.8	4.8	4.8	4.8
≥ OR >2000	12.1	12.1	12.1	12.1	13.7	13.7	13.7	13.7
≥ OR >1000	26.6	29.0	29.8	29.8	31.5	31.5	31.5	31.5
≥ OR >600	29.0	33.1	33.9	33.9	35.5	35.5	35.5	35.5
≥ OR >300	29.8	33.9	35.5	35.5	37.1	37.1	37.1	37.1
≥ OR >150	29.8	33.9	35.5	35.5	37.1	37.1	37.1	37.1
≥ OR > 0	31.5	36.3	37.9	37.9	39.5	39.5	39.5	39.5
TOTAL	39	45	47	47	49	49	49	49

TOTAL NUMBER OF OBS: 124

PCT FREQ NH <5/8: 60.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.9	7.8	22.5	14.7	12.4	9.3	11.6	5.4	10.9	1.6	129

NOVEMBER

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1880-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.2	.6	.0	.4	.0	.0	.0	.0	.0	.0	1.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	1.5	
5<10	PCP	.4	.8	4.0	2.1	.0	.0	.0	.8	.0	.4	8.5	
	NO PCP	1.5	3.3	14.0	11.1	3.4	.2	.4	.8	.0	2.3	36.9	
	TOT %	1.9	4.0	18.1	13.2	3.4	.2	.4	1.5	.0	2.7	45.4	
10+	PCP	.0	.3	1.3	.9	.7	.0	.0	.0	.0	.0	3.1	
	NO PCP	1.2	5.6	13.4	17.9	6.4	1.1	1.4	1.2	.0	.4	48.5	
	TOT %	1.2	5.9	14.6	18.8	7.1	1.1	1.4	1.2	.0	.4	51.5	
TOT OBS													260
TOT PCT		3.7	10.5	33.5	33.1	10.5	1.3	1.8	2.7	.0	3.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
1/2<1	0-3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.4	.0	.4	.0	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.6	.0	.4	.0	.0	.0	.0	.0	.0	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.4	.4	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.4	.4	.0	.0	.0	.0	.0		.8	
	TOT %	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	1.5	
5<10	0-3	.0	.4	1.2	.0	.0	.0	.0	.0	.0	2.7	4.2	
	4-10	1.9	2.1	9.0	8.4	3.4	.2	.0	.8	.0		25.8	
	11-21	.0	1.5	6.6	3.4	.0	.0	.4	.8	.0		12.7	
	22+	.0	.0	1.3	1.4	.0	.0	.0	.0	.0		2.7	
	TOT %	1.9	4.0	18.1	13.2	3.4	.2	.4	1.5	.0	2.7	45.4	
10+	0-3	.4	.0	.7	.5	.8	.0	.0	.0	.0	.4	2.7	
	4-10	.4	2.5	4.5	3.9	3.9	.5	.4	.4	.0		16.5	
	11-21	.4	2.9	7.3	12.7	2.0	.5	.8	.4	.0		26.9	
	22+	.0	.5	2.1	1.6	.4	.1	.3	.4	.0		5.4	
	TOT %	1.2	5.9	14.6	18.8	7.1	1.1	1.4	1.2	.0	.4	51.5	
TOT OBS													260
TOT PCT		3.7	10.5	33.5	33.1	10.5	1.3	1.8	2.7	.0	3.1	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1880-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.2	3.2	12.9	16.1	3.2	.0	3.2	.0	41.9	58.1	31
06&09	7.0	.0	2.3	9.3	25.6	4.7	.0	.0	.0	2.3	51.2	48.8	43
12&15	.0	.0	.0	3.7	11.1	3.7	7.4	.0	.0	3.7	29.6	70.4	27
18&21	.0	.0	.0	.0	14.3	10.7	.0	.0	.0	.0	25.0	75.0	28
TOT	3	0	2	6	22	11	3	0	1	2	50	79	129
PCT	2.3	.0	1.6	4.7	17.1	8.5	2.3	.0	.8	1.6	38.8	61.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.9	.9	.0	.0	57.4	40.7	108
06&09	.0	.0	.0	6.7	6.7	86.7	45
12&15	.0	5.3	.0	1.1	66.3	27.4	95
18&21	.0	.0	.0	.0	.0	100.0	29
TOT	1	6	0	4	128	138	277
PCT	.4	2.2	.0	1.4	46.2	49.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.2	6.5	35.5	58.1	31
06&09	7.5	10.0	20.0	32.5	47.5	40
12&15	.0	8.0	12.0	20.0	68.0	25
18&21	.0	.0	.0	25.0	75.0	28
TOT	3	7	13	36	75	124
PCT	2.4	5.6	10.5	29.0	60.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.7	1.4	.7	.0	4	2.7
80/84	.0	.0	.0	.0	.7	13.0	8.2	.7	33	22.6
75/79	.0	.0	.0	.7	3.4	19.9	17.1	9.6	74	50.7
70/74	.0	.0	.0	.7	6.2	4.8	6.8	5.5	35	24.0
TOTAL	0	0	0	2	16	57	48	23	146	100.0
PCT	.0	.0	.0	1.4	11.0	39.0	32.9	15.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.2	.2	.5	.2	.7	.0	.0	.0
1.4	1.9	9.1	5.8	1.7	.0	.7	.7	.0	1.4
.7	6.2	15.4	19.7	4.6	.7	1.4	2.1	.0	.0
.0	2.1	4.3	10.8	6.0	.9	.0	.0	.0	.0
2.1	10.1	30.0	36.5	12.8	1.7	2.7	2.7	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	86	84	78	73	73	73	78.0	155
06&09	83	82	81	77	73	70	70	77.1	51
12&15	81	80	80	75	71	70	70	75.5	96
18&21	80	79	79	77	72	72	72	76.4	30
TOT	88	85	82	77	72	70	70	77.0	332

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	14.0	44.2	30.2	11.6	78	43
06&09	.0	2.1	12.5	35.4	27.1	22.9	80	48
12&15	.0	3.1	6.3	37.5	34.4	18.8	81	32
18&21	.0	.0	7.7	34.6	46.2	11.5	81	26
TOT	0	2	16	57	49	25	80	149

PERIOD: (PRIMARY) 1855-1977
(OVER-ALL) 880-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.4	.4	2	.0	.8
6	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.0	.4	.0	.4	2	.0	.8
4	.0	.0	2.0	.4	.0	6	.0	2.4
3	.0	.0	1.2	.8	.0	5	.0	2.0
2	.0	.8	2.8	3.3	.0	17	.4	6.5
1	.0	1.2	7.3	4.1	.0	31	.4	12.2
0	.0	6.1	13.0	1.6	.0	51	.4	20.3
-1	.4	10.6	11.0	.4	.0	55	.0	22.4
-2	1.2	7.7	3.7	.4	.0	32	.4	12.6
-3	.8	3.7	2.0	.0	.0	16	.0	6.5
-4	2.0	3.7	1.2	.0	.0	17	.0	6.9
-5	.4	2.0	.0	.0	.0	6	.0	2.4
-6	.4	.8	.4	.0	.0	4	.0	1.6
-7/-8	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	13	91	111	29	2	246	4	242
PCT	5.3	37.0	45.1	11.8	.8	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.3	1.3	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	1.3	.0	.0	.0	2.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	2.5	.0	.0	.0	2.8
3-4	.0	2.5	4.7	1.6	.0	.0	8.8
5-6	.0	1.3	.0	.0	.0	.0	1.3
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	7.5	1.6	.0	.0	13.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.0	.0	.0	.0	.9
1-2	.0	4.4	1.3	.0	.0	.0	5.6
3-4	.0	.0	6.6	.9	.0	.0	7.5
5-6	.0	.0	2.5	2.5	1.3	.0	6.3
7	.0	.0	.9	2.2	.0	.0	3.1
8-9	.0	.0	1.3	.0	.0	.0	1.3
10-11	.0	.0	.9	.0	.0	.0	.9
12	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	1.3	.0	.0	1.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.4	13.4	6.6	2.5	.0	27.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3
1-2	.0	8.1	1.3	.0	.0	.0	9.4
3-4	.0	2.5	6.6	1.3	.0	.0	10.3
5-6	.0	.0	6.3	.0	.0	.0	6.3
7	.0	.0	10.0	.3	.0	.0	10.3
8-9	.0	.0	1.3	1.3	.0	.0	2.5
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	10.6	29.6	3.1	.0	.0	39.7

PERIOD: (OVER-ALL) 1965-1977 NOVEMBER AREA 0014 TONGA ISLANDS GROUP

TABLE 18 (CONT) 20.4S 174.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	8.4	.0	.0	.0	.0	8.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.9	.9	.0	.0	.0	1.9	.0	.3	1.3	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.4	.9	.0	.0	.0	10.3	.0	.3	1.3	.3	.0	.0	1.9

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	1.3	.0	1.3	.0	.0	2.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	1.3	.9	.0	.0	2.2	.0	1.3	.0	1.3	.0	.0	2.5	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.3	.0	.0	.0	.0	.0	1.3	
1-2	.0	21.3	5.0	.0	.0	.0	26.3	
3-4	.0	6.3	20.0	3.8	.0	.0	30.0	
5-6	.0	3.8	11.3	3.8	1.3	.0	20.0	
7	.0	.0	11.3	2.5	.0	.0	13.8	
8-9	.0	.0	2.5	2.5	.0	.0	5.0	
10-11	.0	.0	1.3	.0	.0	.0	1.3	
12	.0	.0	.0	1.3	.0	.0	1.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	1.3	.0	1.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								80
TOT PCT	1.3	31.3	51.3	13.8	2.5	.0	100.0	

PERIOD: (OVER-ALL) 1950-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	5.8	10.7	8.7	5.8	1.9	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	5
6-7	.0	.0	4.9	7.8	9.7	1.0	3.9	1.9	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	31	7
8-9	.0	.0	3.9	2.9	4.9	6.8	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
10-11	.0	.0	1.9	1.0	1.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
12-13	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
TOTAL	1	6	23	26	24	10	7	4	0	1	1	0	0	0	0	0	0	0	0	103	6
PCT	1.0	5.8	22.3	25.2	23.3	9.7	6.8	3.9	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1861-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	20.0	13.3	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0		.0	66.7
NE	16.7	.0	2.4	.0	.0	.0	.0	19.0	9.5	.0	.0	.0	.0		.0	71.4
E	.0	7.8	1.7	.0	.0	.0	.0	9.6	1.7	.9	.0	.0	.0		.0	87.8
SE	1.8	4.6	.9	.0	.0	.0	.0	7.3	1.8	2.7	.0	.0	.0		.0	90.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	23.5	.0	.0	.0		.0	64.7
NW	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0		.0	90.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0		.0	80.0
TOT PCT	4.1	4.7	1.2	.0	.0	.0	.0	10.1	2.4	2.4	.0	.0	.0		.0	85.8
TOT OBS:	169															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.6	5.6	3.7	.0	.0	.0	.0	14.8	.0	.0	.0	.0	.0		.0	85.2
06&09	3.7	.0	.0	.0	.0	.0	.0	3.7	3.7	.0	.0	.0	.0		.0	92.6
12&15	5.3	8.8	.0	.0	.0	.0	.0	14.0	1.8	7.0	1.8	.0	.0		.0	77.2
18&21	.0	.0	.0	.0	.0	.0	.0	.0	5.7	.0	.0	.0	.0		.0	94.3
TOT PCT	4.0	4.6	1.2	.0	.0	.0	.0	9.8	2.3	2.3	.6	.0	.0		.0	85.5
TOT OBS:	173															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	2.8	.8	.0	.0	.0		4.6	8.3	5.7	.0	3.6	.0	5.1	.0	2.0	.0
NE	2.6	7.4	1.2	1.1	.0	.0		12.3	7.8	11.7	.0	7.1	.0	16.4	.0	11.5	.0
E	2.5	15.4	17.0	1.5	.0	.0		36.3	11.5	43.8	.0	28.6	.0	30.9	100.0	33.1	.0
SE	1.6	17.0	11.2	2.0	.0	.0		31.7	11.3	28.5	.0	30.0	100.0	30.5	.0	25.0	.0
S	.0	3.2	1.5	.3	.0	.0		5.0	11.2	3.8	.0	3.6	.0	2.7	.0	13.5	.0
SW	1.3	1.1	.0	.0	.0	.0		2.5	3.5	2.2	.0	.9	.0	4.7	.0	.7	.0
W	.9	1.2	.7	.0	.0	.0		2.8	7.9	1.1	.0	2.7	.0	2.3	.0	8.1	.0
NW	.0	.1	2.1	.0	.0	.0		2.2	14.4	1.1	.0	3.6	.0	2.7	.0	3.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0	2.2	.0	.0	.0	4.7	.0	2.7	.0
TOT OBS	28	108	77	11	0	0	224		10.3	92	0	28	2	64	1	37	0
TOT PCT	12.5	48.2	34.4	4.9	.0	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.3	2.8	.4	.0	.0		4.6	8.3	5.7	3.3	5.0	2.0
NE	6.9	4.0	1.3	.0	.0		12.3	7.8	11.7	6.7	16.2	11.5
E	5.6	24.9	5.8	.0	.0		36.3	11.5	43.8	26.7	31.9	33.1
SE	4.5	23.0	2.9	1.3	.0		31.7	11.3	28.5	93.3	30.0	25.0
S	.8	3.6	.7	.0	.0		5.0	11.2	3.8	3.3	2.7	13.5
SW	2.3	.1	.0	.0	.0		2.5	3.5	2.2	.8	4.6	.7
W	1.3	1.0	.4	.0	.0		2.8	7.9	1.1	2.5	2.3	8.1
NW	.0	1.8	.4	.0	.0		2.2	14.4	1.1	3.3	2.7	3.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	2.2	.0	4.6	2.7
TOT OBS	57	137	27	3	0	224		10.3	92	90	65	37
TOT PCT	25.4	61.2	12.1	1.3	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1861-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.2	10.9	48.9	31.5	6.5	.0	.0	10.3	100.0	92
06&09	.0	.0	56.7	36.7	6.7	.0	.0	12.3	100.0	30
12&15	4.6	13.8	50.8	29.2	1.5	.0	.0	9.1	100.0	65
18&21	2.7	8.1	35.1	48.6	5.4	.0	.0	10.9	100.0	37
TOT	6	22	108	77	11	0	0	10.3		224
PCT	2.7	9.8	48.2	34.4	4.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.0	3.3	.0		4.7
NE	3.6	3.1	5.2	1.0		4.3
E	6.6	9.8	11.0	2.4		4.2
SE	7.4	11.7	9.8	2.6		4.2
S	2.6	4.8	1.0	.7		3.6
SW	1.0	.5	.0	.0		1.0
W	1.0	.7	1.0	.0		4.0
NW	.2	.0	1.2	2.9		7.2
VAR	.0	.0	.0	.0		.0
CALM	.0	1.9	.0	.0		3.5
TOT OBS	27	34	34	10	105	4.3
TOT PCT	25.7	32.4	32.4	9.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.7	1.0	.0	.0	.0	3.1	
NE	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	11.0	
E	.0	.0	.7	1.0	2.6	.7	.0	.0	.0	.0	26.7	
SE	.0	.0	.2	.2	3.1	2.1	1.0	.0	.0	.0	24.8	
S	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	8.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
NW	.0	.0	.0	2.9	.0	.2	.0	.0	.0	.0	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
TOT OBS	0	0	1	6	7	4	2	0	0	0	85	105
TOT PCT	.0	.0	1.0	5.7	6.7	3.8	1.9	.0	.0	.0	81.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >900YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >1500	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >2000	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
* OR >1000	9.4	11.3	12.3	12.3	12.3	12.3	12.3	12.3
* OR >600	13.2	17.0	17.9	17.9	17.9	17.9	17.9	17.9
* OR >300	14.2	17.9	18.9	18.9	18.9	18.9	18.9	18.9
* OR >150	14.2	17.9	18.9	18.9	18.9	18.9	18.9	18.9
* OR > 0	14.2	17.9	18.9	18.9	18.9	18.9	18.9	18.9
TOTAL	15	19	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 105 PCT FREQ NH <5/8: 81.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.6	13.0	21.3	23.1	17.6	9.3	4.6	1.9	3.7	.0	108

DECEMBER

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1891-1977

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	1.2	
5<10	PCP	1.2	1.5	2.7	1.8	.0	.0	.3	.3	.0	.0	7.7	
	NO PCP	.0	4.0	11.4	10.8	1.6	.6	.6	.6	.0	1.8	31.4	
	TOT %	1.2	5.5	14.1	12.5	1.6	.6	.9	.9	.0	1.8	39.1	
10+	PCP	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	3.0	6.1	19.4	19.1	4.1	1.5	1.6	2.1	.0	1.2	58.0	
	TOT %	3.0	6.7	20.0	19.1	4.1	1.5	1.6	2.1	.0	1.2	59.2	
	TOT OBS												169
	TOT PCT	4.4	13.0	34.0	32.2	5.8	2.1	2.5	3.0	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.6	.0	.0	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.6	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	1.2	
5<10	0-3	.6	1.8	.9	1.5	.0	.0	.0	.0	.0	1.8	6.5	
	4-10	.6	2.8	8.7	7.9	.6	.6	.0	.0	.0		21.2	
	11-21	.0	.3	4.4	2.5	1.0	.0	.9	.9	.0		10.0	
	22+	.0	.6	.0	.6	.0	.0	.0	.0	.0		1.2	
	TOT %	1.2	5.4	14.0	12.5	1.6	.6	.9	.9	.0	1.8	38.8	
10+	0-3	.0	.6	1.2	.0	.0	1.2	.6	.0	.0	1.2	4.7	
	4-10	1.9	4.7	5.7	8.2	3.2	.3	1.0	.1	.0		25.3	
	11-21	1.0	1.3	11.3	9.9	.4	.0	.0	1.9	.0		25.9	
	22+	.0	.0	1.6	1.5	.4	.0	.0	.0	.0		3.5	
	TOT %	2.9	6.6	19.9	19.6	4.1	1.5	1.6	2.1	.0	1.2	59.4	
	TOT OBS												170
	TOT PCT	4.4	12.9	33.8	32.6	5.7	2.1	2.5	2.9	.0	2.9	100.0	

DECEMBER

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1861-1977

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20.4S 174.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	.0	11.1	5.6	5.6	5.6	.0	.0	.0	27.8	72.2	18
06609	.0	.0	3.8	7.7	3.8	7.7	3.8	.0	.0	.0	26.9	73.1	26
12615	.0	.0	.0	7.1	10.7	.0	.0	.0	.0	.0	17.9	82.1	28
18621	.0	.0	.0	.0	5.7	2.9	.0	.0	.0	.0	8.6	91.4	35
TOT	0	0	1	6	7	4	2	0	0	0	20	87	107
PCT	.0	.0	.9	5.6	6.5	3.7	1.9	.0	.0	.0	18.7	81.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	1.9	.0	.0	63.0	35.2	54
06609	.0	.0	.0	3.7	.0	96.3	27
12615	.0	1.7	.0	1.7	53.4	43.1	58
18621	.0	.0	.0	.0	5.7	94.3	35
TOT	0	2	0	2	67	103	174
PCT	.0	1.1	.0	1.1	38.5	59.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	.0	11.1	16.7	72.2	18
06609	.0	3.8	15.4	15.4	69.2	26
12615	.0	.0	11.1	7.4	81.5	27
18621	.0	.0	.0	8.6	91.4	35
TOT	0	1	9	12	85	106
PCT	.0	.9	8.5	11.3	80.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.7	2.6	.9	.0	6	5.1
80/84	.0	.0	.0	.0	2.6	12.0	11.1	6.8	38	32.5
75/79	.0	.0	.0	.0	2.6	17.9	19.7	14.5	64	54.7
70/74	.0	.0	.0	.0	.9	4.3	1.7	.9	9	7.7
TOTAL	0	0	0	0	9	43	39	26	117	100.0
PCT	.0	.0	.0	.0	7.7	36.8	33.3	22.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.9	.9	1.3	1.3	.0	.0	.0	.0	.0	.9
2.1	6.4	11.3	4.9	3.2	1.7	.9	1.1	.0	.9
2.1	2.8	18.8	21.8	3.6	1.3	1.5	2.8	.0	.0
.0	.0	.9	3.8	1.3	.0	1.7	.0	.0	.0
5.1	10.0	32.3	31.8	8.1	3.0	4.1	3.8	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	87	86	85	79	75	74	74	79.1	93
06609	85	84	83	78	74	73	73	78.4	30
12615	82	81	81	76	74	72	72	77.1	64
18621	80	85	84	77	72	72	72	77.8	38
TOT	87	86	83	78	74	72	72	78.2	225

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	14.8	37.0	25.9	22.2	79	27
06609	.0	.0	13.8	27.6	24.1	34.5	83	29
12615	.0	.0	.0	30.0	50.0	20.0	83	30
18621	.0	.0	3.1	53.1	31.3	12.5	80	32
TOT	0	0	9	44	39	26	81	118

PERIOD: (PRIMARY) 1895-1977
(OVER-ALL) 1861-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.6	1	.0	.6
7/8	.0	.0	.0	.6	.0	1	.0	.6
6	.0	.0	.6	.0	.0	1	.0	.6
5	.0	.0	.6	.0	1.2	3	.0	1.9
4	.0	.0	.0	.6	.0	1	.0	.6
3	.0	.0	.6	1.9	.6	5	.0	3.1
2	.0	.0	4.3	1.9	.6	11	.0	6.8
1	.0	.6	8.7	.6	.6	17	.0	10.6
0	.0	3.1	12.4	1.9	.0	28	.0	17.4
-1	.6	8.7	13.0	.0	.0	36	.6	21.7
-2	.0	6.2	5.6	.6	.0	20	.0	12.4
-3	.6	3.1	5.6	2.5	.0	19	.0	11.8
-4	1.2	1.9	.6	1.2	.0	8	.0	5.0
-5	.0	1.2	3.1	.0	.0	7	.0	4.3
-6	.0	.0	.6	.0	.0	1	.0	.6
-7/-8	.0	1.2	.0	.0	.0	2	.0	1.2
TOTAL	4	42	90	19	6	161	1	160
PCT	2.5	26.1	55.9	11.8	3.7	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.2	.0	.0	.0	.0	4.2
3-4	.0	.0	1.0	.0	.0	.0	1.0
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	2.3	.0	.0	.0	6.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	.3	.0	.0	.0	2.6
3-4	.0	5.2	1.3	.0	.0	.0	6.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	1.3	1.3	.0	.0	.0	.0	2.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	8.8	1.6	.0	.0	.0	11.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	1.3	5.5	4.9	.0	.0	.0	11.7
3-4	.0	.0	5.5	.0	.0	.0	5.5
5-6	.0	1.3	6.8	.0	.0	.0	8.1
7	.0	.0	1.3	2.3	.0	.0	3.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.3	.0	.0	1.3
12	.0	1.3	.0	.0	.0	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	9.4	18.5	3.6	.0	.0	32.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	5.8	4.2	.0	.0	.0	10.1
3-4	.0	1.3	3.6	.0	.0	.0	4.9
5-6	.0	.0	6.2	.0	.0	.0	6.2
7	.0	1.3	1.3	1.6	.0	.0	4.2
8-9	.0	.0	.0	1.6	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.8	15.3	3.2	.0	.0	27.3

PERIOD: (OVER-ALL) 1963-1977 DECEMBER AREA 0014 TONGA ISLANDS GROUP

TABLE 18 (CONT) 20.4S 174.7W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	2.6	1.0	.0	.0	.0	3.6
3-4	.0	2.6	.0	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.0	.0	.0	1.0
10-11	.0	.0	1.3	.0	.0	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	2.3	1.0	.0	.0	10.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.0	.0	.0	.0	.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	.0	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.0	.0	.0	.0	2.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.3	2.6	.0	.0	.0	2.9	
3-4	.0	.0	2.9	.0	.0	.0	2.9	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	5.5	.0	.0	.0	5.8	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	3.9	.0	.0	.0	.0	6.5	
1-2	1.3	23.4	13.0	.0	.0	.0	37.7	
3-4	.0	9.1	14.3	.0	.0	.0	23.4	
5-6	.0	1.3	14.3	.0	.0	.0	15.6	
7	.0	1.3	2.6	3.9	.0	.0	7.8	
8-9	1.3	1.3	.0	2.6	.0	.0	5.2	
10-11	.0	.0	1.3	1.3	.0	.0	2.6	
12	.0	1.3	.0	.0	.0	.0	1.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	41.6	45.5	7.8	.0	.0	100.0	77

PERIOD: (OVER-ALL) 1955-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	6.9	14.9	8.0	4.6	1.1	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	4
6-7	.0	.0	5.7	10.3	6.9	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
8-9	.0	.0	.0	1.1	6.9	1.1	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
10-11	.0	.0	.0	.0	1.1	2.3	4.6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	9	13
12-13	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.0	1.1	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
INDEF	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
TOTAL	0	6	19	20	19	10	9	1	0	1	1	0	0	1	0	0	0	0	0	87	6
PCT	.0	6.9	21.8	23.0	21.8	11.5	10.3	1.1	.0	1.1	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1890-1978
(OVER-ALL) 1861-1978

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	10.0	6.0	.7	.0	.0	.0	.0	16.7	6.3	5.8	1.3	.0	1.4		.0	71.4
NE	6.8	2.3	.4	.0	.0	.0	.0	9.5	1.7	.7	.6	.0	.6		.0	87.4
E	4.4	4.4	1.8	.0	.0	.0	.0	11.0	1.7	.3	.2	.0	.1		.0	86.7
SE	3.5	3.9	1.7	.0	.0	.0	.2	9.2	1.9	.4	.4	.0	.3		.0	87.9
S	4.2	1.9	2.4	.0	.0	.0	.0	8.5	2.7	1.1	.0	.0	.0		.0	87.6
SW	.8	2.2	.0	.0	.0	.0	.0	3.0	4.2	.0	.5	.0	.0		.0	92.3
W	7.0	3.8	.0	.0	.0	.0	.0	10.7	7.0	4.3	.0	.0	1.0		.0	77.0
NW	5.6	7.2	1.6	.0	.0	.0	.0	14.4	5.4	2.4	.0	.0	1.2		.0	77.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	11.6	.5	.0	.0	.0	.0	.0	12.1	1.0	1.7	.0	.0	1.7		.0	83.5
TOT PCT	4.9	4.1	1.6	.0	.0	.0	.1	10.7	2.6	.8	.3	.0	.4		.0	85.4
TOT OBS:	2482															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.2	4.2	1.5	.0	.0	.0	.1	10.0	1.8	.1	.2	.0	.5		.0	87.4
06&09	4.4	2.2	1.9	.0	.0	.0	.0	7.9	4.4	.3	.6	.0	.3		.0	86.4
12&15	4.9	6.5	2.0	.0	.0	.0	.0	13.5	2.2	2.8	.9	.0	.2		.0	81.3
18&21	5.8	2.3	1.5	.0	.0	.0	.0	9.8	4.8	.3	.0	.0	.0		.0	85.2
TOT PCT	4.9	4.3	1.6	.0	.0	.0	.1	10.8	2.7	.8	.4	.0	.4		.0	85.2
TOT OBS:	2548															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	2.9	1.3	.2	.0	.0		5.1	8.9	5.5	10.4	6.4	13.5	4.3	.0	2.7	4.2
NE	1.1	5.8	3.2	.4	.0	.0		10.4	9.2	10.7	4.2	8.8	11.1	11.3	.0	10.6	12.5
E	1.9	13.7	13.8	2.3	.2	.0		31.9	12.2	35.5	12.5	32.7	17.7	27.8	25.0	24.6	20.8
SE	1.6	11.8	12.4	3.9	.5	*		30.2	13.5	29.4	12.5	32.2	22.0	30.2	.0	35.0	4.2
S	1.1	5.1	3.0	.4	*	.0		9.6	9.9	8.8	.0	8.2	6.8	10.4	.0	12.8	.0
SW	.5	1.4	1.2	.2	.0	.0		3.3	9.6	2.4	8.3	4.9	.0	4.2	.0	3.5	.0
W	.2	1.8	.7	.4	*	.0		3.1	10.6	3.0	.0	2.4	6.9	2.5	.0	4.7	.0
NW	.2	2.0	1.1	.2	*	.0		3.6	10.7	3.0	10.4	3.3	5.2	3.7	.0	3.8	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0	1.7	.0	1.0	.0	5.6	.0	2.2	.0
TOT OBS							3122		11.4	1566	8	381	22	770	3	367	5
TOT PCT	10.1	44.4	36.8	7.8	.8	*		100.0		100.0	58.3	100.0	83.3	100.0	25.0	100.0	41.7

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	2.8	.5	.1	.0		5.1	8.9	5.7	6.7	4.3	2.8
NE	3.6	6.1	.8	*	.0		10.4	9.2	10.7	9.0	11.3	10.9
E	6.7	16.9	7.6	.7	*		31.9	12.2	35.3	32.0	28.1	24.9
SE	5.1	15.7	8.1	1.1	.1		30.2	13.5	29.4	31.8	30.1	34.7
S	2.9	5.3	1.4	*	.0		9.6	9.9	8.7	8.4	10.3	12.6
SW	1.1	1.7	.4	*	.0		3.3	9.6	2.4	4.7	4.2	3.5
W	1.1	1.5	.4	.1	.0		3.1	10.6	3.0	2.8	2.5	4.7
NW	1.1	2.0	.5	.1	.0		3.6	10.7	3.1	3.7	3.7	3.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	1.7	.9	5.6	2.2
TOT OBS						3122		11.4	1574	403	773	372
TOT PCT	26.0	52.0	19.7	2.2	.1		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1890-1978
(OVER-ALL) 1861-1978

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	9.1	46.6	34.0	7.9	.7	.0	11.2	100.0	1574
06&09	.9	2.2	37.9	46.8	11.2	.8	.2	13.2	100.0	403
12&15	5.6	8.0	44.1	35.2	6.1	1.0	.0	10.9	100.0	773
18&21	2.2	4.1	37.7	47.3	7.7	1.0	.0	12.3	100.0	372
TOT								11.4		3122
PCT	2.7	7.5	44.4	36.8	7.8	.8	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.7	1.9	1.2		5.5
NE	2.0	2.5	3.3	2.4		4.9
E	5.1	6.9	11.1	6.4		5.0
SE	6.1	7.0	11.6	7.0		4.9
S	2.4	3.6	3.0	1.8		4.4
SW	.6	1.4	1.0	.8		4.1
W	.7	.8	1.4	.8		5.2
NW	.2	.6	1.5	1.7		5.8
VAR	.0	.0	.0	.0		.0
CALM	.9	.3	.3	.7		2.8
TOT OBS					1295	5.0
TOT PCT	18.7	23.9	35.1	22.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.2	.5	.7	.1	.1	.0	.0	.0	2.8	
NE	*	.0	.1	.8	1.4	.5	.1	.0	.0	.2	7.1	
E	.2	.0	.6	2.9	4.3	1.9	.8	.1	.1	.0	18.6	
SE	.2	.0	.5	3.2	5.1	2.2	.6	.2	.1	.1	19.6	
S	.0	.0	.2	.8	1.5	.5	.6	*	.0	.1	7.2	
SW	.0	.0	.0	.4	.7	.0	.2	.0	.0	.0	2.5	
W	.1	.0	.0	.2	.6	.3	.0	.1	.0	.1	2.4	
NW	.1	.0	.1	.8	.9	.2	.1	.0	.0	.0	1.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	1.5	
TOT OBS												1295
TOT PCT	.6	.0	1.6	9.9	15.3	5.7	2.5	.4	.1	.4	63.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	2.9	3.3	3.5	3.5	3.6	3.6	3.6	3.6
* OR >2000	7.9	8.9	9.1	9.1	9.2	9.2	9.2	9.2
* OR >1000	19.8	23.7	24.3	24.3	24.5	24.5	24.5	24.5
* OR >600	26.4	32.6	33.9	33.9	34.2	34.3	34.3	34.3
* OR >300	27.5	34.2	35.6	35.6	35.9	36.0	36.1	36.1
* OR >150	27.5	34.2	35.6	35.6	35.9	36.0	36.1	36.1
* OR > 0	27.7	34.6	36.0	36.0	36.5	36.6	36.7	36.7

TOTAL NUMBER OF OBS: 1322 PCT FREQ NH <5/8: 63.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.8	10.5	18.1	15.8	15.2	7.6	8.2	6.9	13.5 .4	1409

PERIOD: (PRIMARY) 1890-1978
(OVER-ALL) 1861-1978

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	NO PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	PCP	.1	.1	.1	.1	.0	.0	.0	*	.0	.0	.3	
	NO PCP	*	.1	*	*	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.2	.1	.1	.0	.0	.0	*	.0	.0	.5	
1<2	PCP	.0	*	.1	.1	.0	.0	.1	*	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	*	.1	.1	.1	.0	.1	*	.0	.0	.4	
2<5	PCP	.1	*	.3	.6	.2	*	.0	*	.0	.0	1.0	
	NO PCP	.1	.0	*	.1	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.2	*	.3	.4	.2	*	.0	*	.0	.0	1.3	
5<10	PCP	.5	.4	2.1	1.5	.4	.1	.1	.2	.0	.1	5.5	
	NO PCP	.8	2.6	7.9	6.9	2.3	.7	.7	.8	.0	1.1	23.9	
	TOT %	1.3	3.0	10.0	8.4	2.7	.8	.9	1.1	.0	1.2	29.5	
10+	PCP	.1	.5	1.0	.8	.3	.0	.1	.2	.0	.2	3.3	
	NO PCP	2.9	6.8	19.7	20.5	6.6	2.4	2.1	2.5	.0	1.3	64.8	
	TOT %	3.0	7.4	20.7	21.3	6.9	2.4	2.2	2.7	.0	1.5	68.2	
	TOT OBS												2481
	TOT PCT	4.7	10.7	31.3	30.8	10.0	3.3	3.1	3.9	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	.1	.0	.0	.0	*	.0		.3	
	11-21	.1	*	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	.2	.1	.1	.0	.0	.0	*	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.0	.0	*	.0	.1	.0	.0	.0	.0		.1	
	11-21	.0	*	.0	.1	.0	.0	.1	*	.0		.2	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	*	.1	.1	.1	.0	.1	*	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	*	.0	.1	.1	.0	*	*	.0		.4	
	11-21	.1	.0	.2	.2	.1	*	.0	*	.0		.6	
	22+	*	.0	.2	.2	.0	.0	.0	*	.0		.4	
	TOT %	.2	*	.3	.4	.2	*	*	*	.0	.0	1.4	
5<10	0-3	.2	.5	.5	.7	.3	.3	*	.1	.0	1.2	3.8	
	4-10	.9	1.8	5.3	4.1	1.5	.3	.4	.5	.0		14.9	
	11-21	.2	.5	3.6	2.6	.7	.1	.2	.3	.0		8.2	
	22+	.0	.3	.6	1.0	.2	.1	.3	.1	.0		2.4	
	TOT %	1.3	3.0	10.0	8.4	2.7	.8	.8	1.1	.0	1.2	29.4	
10+	0-3	.5	.7	1.3	.8	.8	.3	.1	.1	.0	1.5	6.0	
	4-10	1.6	4.0	7.6	7.8	3.4	1.0	1.3	1.6	.0		28.4	
	11-21	.9	2.6	10.2	9.8	2.4	1.0	.5	.8	.0		28.4	
	22+	.1	*	1.6	3.0	.3	.1	.2	.2	.0		5.5	
	TOT %	3.0	7.4	20.7	21.5	6.9	2.4	2.2	2.7	.0	1.5	68.2	
	TOT OBS												2487
	TOT PCT	4.7	10.7	31.2	30.5	9.9	3.3	3.2	3.9	.0	2.7	100.0	

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PERIOD: (PRIMARY) 1890-1978
(OVER-ALL) 1861-1978

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.3	8.4	14.1	5.8	4.0	.8	.5	.0	35.9	64.1	373
06&09	.9	.0	1.8	9.7	15.3	4.0	2.1	.2	.0	.2	34.2	65.8	349
12&15	.9	.0	1.5	7.7	12.8	6.2	3.0	.5	.0	1.2	33.7	66.3	314
18&21	.4	.0	1.0	11.5	16.8	6.0	1.1	.0	.0	.4	37.2	62.8	343
TOT PCT	.0	.0	1.7	9.4	14.7	5.5	2.5	.4	.1	.4	35.2	64.8	1379 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.3	.5	.9	32.7	65.3	1107
06&09	.0	.3	.6	2.8	9.5	86.8	370
12&15	.2	1.4	.1	.7	41.0	56.7	724
18&21	.3	.3	.0	1.9	9.7	87.8	352
TOT PCT	.2	.7	.4	1.4	29.3	68.1	2553 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.6	13.0	25.9	61.2	355
06&09	1.0	3.1	14.3	22.0	63.7	334
12&15	1.0	3.2	12.1	23.5	64.3	297
18&21	.4	2.2	14.2	23.9	61.8	336
TOT PCT	.6	2.8	13.5	23.7	62.8	1322 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.1	.0	.0	.0		.3
90/94	.0	.0	.0	.2	.2	.2	.0	.0		.6
85/89	.0	.0	.0	.7	1.3	1.5	.6	*		4.1
80/84	.0	.0	*	.7	2.9	8.7	10.6	3.0		26.0
75/79	.0	.0	*	1.0	3.3	13.0	15.7	10.2		43.2
70/74	.0	.0	.1	1.1	4.6	7.2	5.5	4.6		23.1
65/69	.0	.0	.0	.2	.7	.4	.7	.4		2.5
60/64	.0	.0	.0	.0	.1	.0	*	.1		.2
TOTAL PCT	.0	.0	.2	4.1	13.2	31.2	33.0	18.4	1814	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.1	.2	.0	.0	.0	.0	.0	.0
*	.0	.5	.1	.0	.0	.0	*	.0	.0
.2	.7	1.7	.9	.1	*	.2	.1	.0	.2
2.4	3.5	9.0	5.7	1.5	.6	1.1	1.5	.0	.7
1.7	5.0	13.2	14.1	4.3	1.2	1.4	1.8	.0	.5
.3	.7	5.2	9.8	4.2	1.5	.7	.3	.0	.4
.0	*	.2	1.0	.8	.3	*	.1	.0	.1
.0	.0	*	*	.1	.1	.0	*	.0	.0
4.7	9.9	29.9	31.6	11.0	3.5	3.5	3.9	.0	1.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	97	87	85	79	73	71	62	77.3	1594
06&09	86	81	81	77	73	72	67	76.8	401
12&15	83	80	80	76	72	70	60	75.0	786
18&21	86	80	80	76	72	71	63	75.5	373
TOT	97	86	83	77	72	70	60	76.4	3154

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

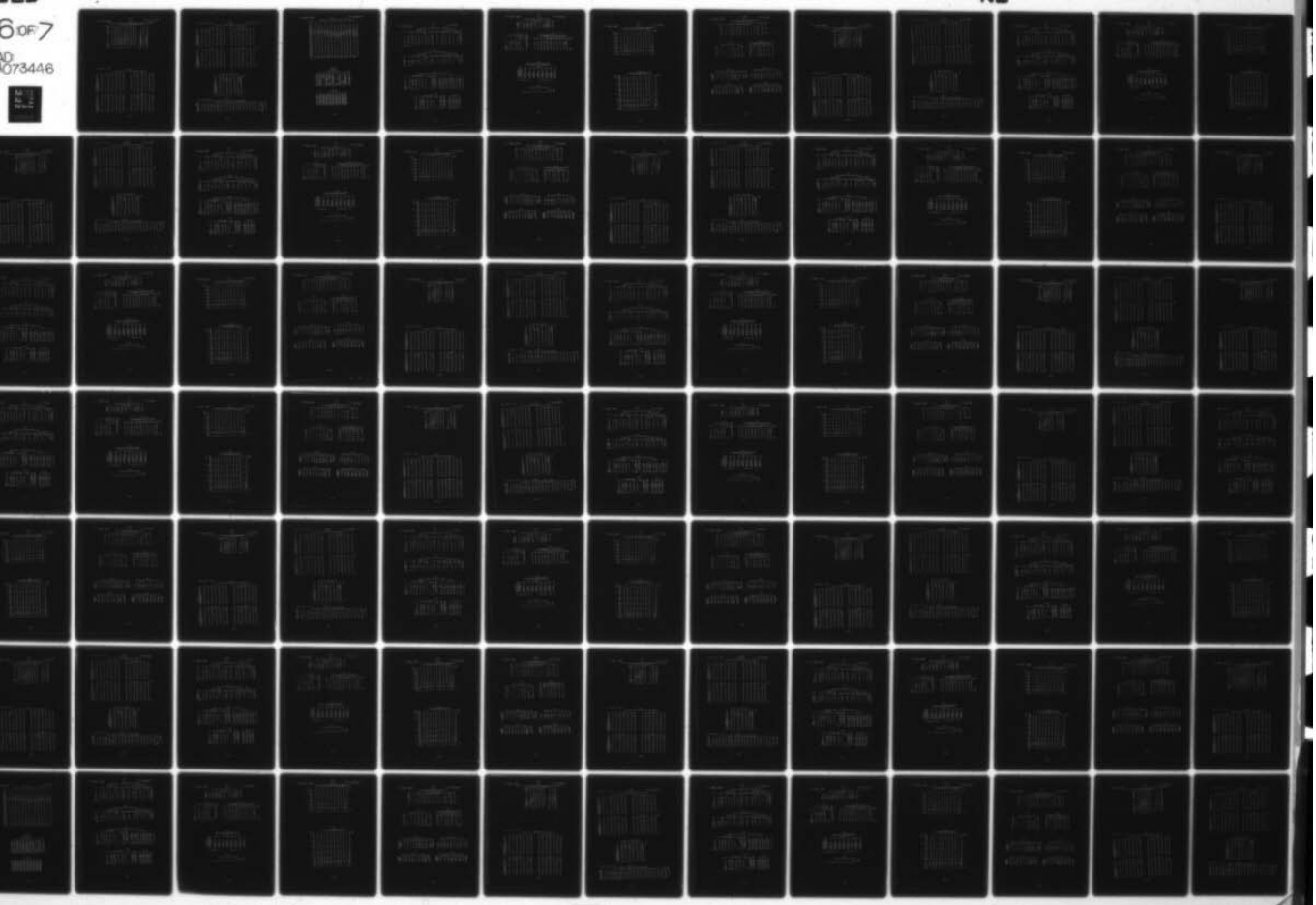
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.5	16.4	36.1	27.1	14.0	77	736
06&09	.0	2.1	12.5	28.5	36.2	20.7	81	378
12&15	.0	2.3	10.4	26.3	39.5	21.4	81	369
18&21	.0	3.1	9.6	28.2	36.7	22.4	81	346
TOT	0	86	248	576	600	339	79	1849

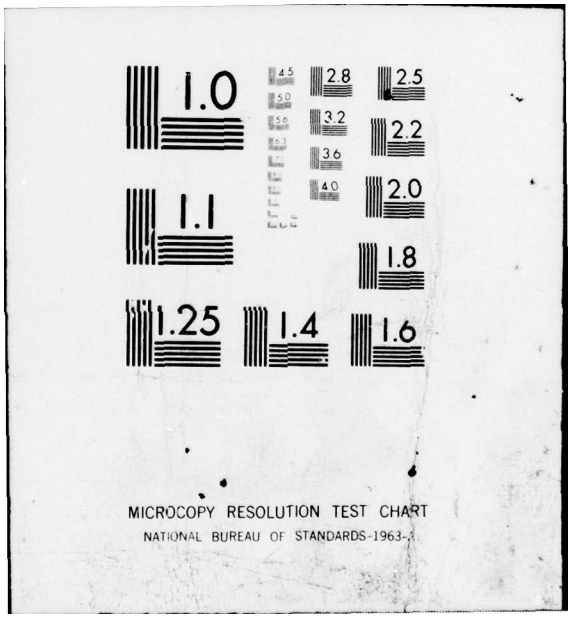
AD-A073 446 NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO) SELECTED--ETC(U)
SEP 79

UNCLASSIFIED NL

6 OF 7

AD A073446




1.0
1.1
1.25
1.4
1.6
1.8
2.0
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2.5
2.8
3.2
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4.0
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5.0
5.6
6.3
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

ANNUAL

PERIOD: (PRIMARY) 1890-1978
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	*	*	*	.0	3	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	4	*	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
7/8	.0	.0	.0	.0	.0	*	.3	.1	.0	.0	10	.0	.4
6	.0	.0	.0	.0	*	.2	.1	.1	.1	.0	11	.0	.6
5	.0	.0	.0	.0	*	.2	.3	.4	.0	.0	19	.0	.9
4	.0	.0	.0	.0	*	.5	.5	.1	.1	.0	27	.0	1.2
3	.0	.0	.0	.0	.3	1.0	1.1	.3	.0	.0	57	.0	2.8
2	.0	.0	.0	.0	1.0	2.0	1.5	.5	.0	.0	110	*	4.9
1	.0	.0	.0	.2	2.2	4.0	1.8	.3	.0	.0	192	.1	8.4
0	.0	.0	.0	.5	3.9	7.1	2.8	.4	.0	.0	321	*	14.8
-1	.0	.0	.0	1.0	5.7	7.2	1.5	.3	.0	.0	338	.1	15.6
-2	.0	.0	.0	2.0	5.0	5.5	1.9	.0	.0	.0	301	.1	14.5
-3	.0	.0	.2	2.5	4.6	4.1	1.6	.0	.0	.0	272	*	12.9
-4	.0	.0	.3	2.6	2.7	2.7	.7	.0	.0	.0	189	.1	8.9
-5	.0	.0	.4	1.0	2.3	2.2	.2	.0	.0	.0	123	.1	6.0
-6	.0	.0	.1	.9	1.3	.9	.1	.0	.0	.0	62	.0	3.2
-7/-8	*	.1	.3	.8	.9	.6	.0	.0	.0	.0	54	.0	2.6
-9/-10	.0	.0	.1	.4	.4	.1	.0	.0	.0	.0	17	.0	1.0
TOTAL											2114		
PCT	*	.1	1.3	12.0	30.6	38.4	14.7	2.6	.2	.1	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.9
1-2	.2	1.2	.2	.0	.0	.0	1.6
3-4	.1	.4	1.1	.0	.0	.0	1.6
5-6	.0	.1	.4	.0	.0	.0	.5
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.3	1.9	.2	.0	.0	4.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	1.0
1-2	.0	2.6	1.2	.0	.0	.0	3.8
3-4	.0	1.4	2.1	.1	.0	.0	3.6
5-6	.0	.2	1.1	.0	.0	.0	1.3
7	.0	.0	.4	.1	.0	.0	.6
8-9	.1	.1	.1	.0	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.1	5.0	.3	.0	.0	10.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.1	.0	.0	.0	1.1
1-2	.1	4.5	3.1	.0	.0	.0	7.7
3-4	.1	2.4	6.1	.1	.0	.0	8.7
5-6	.0	.7	4.1	.9	.1	.0	5.9
7	.0	.1	2.3	1.1	.0	.0	3.5
8-9	.0	.0	.5	.5	.0	.0	1.0
10-11	.0	.0	.3	.1	.0	.0	.4
12	.0	.2	.3	.1	.0	.0	.6
13-16	.0	.0	.1	.1	.1	.0	.3
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.5	16.9	3.0	.4	.0	29.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.3	.1	.0	.0	.0	.4
1-2	.0	5.4	2.4	.0	.0	.0	7.7
3-4	.0	2.8	4.2	.5	.0	.0	7.5
5-6	.0	.8	5.7	.4	.0	.0	6.9
7	.0	.2	2.6	1.3	.1	.0	4.3
8-9	.0	.1	.9	.9	.1	.0	1.9
10-11	.0	.0	.3	.6	.2	.1	1.2
12	.0	.0	*	.2	.0	.0	.3
13-16	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	9.6	16.1	4.4	.4	.1	30.6

PERIOD: (OVER-ALL) 1963-1978

ANNUAL

TABLE 18 (CONT)

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.7W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.1	.0	.0	.0	.9
1-2	.0	2.9	.6	.0	.0	.0	3.5
3-4	.0	1.0	1.7	.1	.0	.0	2.8
5-6	.0	.2	1.5	.1	.1	.0	1.9
7	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.0	.1	.2	.0	.0	.2
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.6	4.6	.6	.1	.0	10.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.2	.2	.0	.0	.0	1.3
3-4	.0	.6	1.5	*	.0	.0	2.1
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	2.0	.4	.0	.0	4.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.9	.2	.0	.0	.0	1.1
3-4	.0	.8	.2	.1	.0	.0	1.1
5-6	.0	.0	.4	.0	.1	.0	.5
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	.8	.7	.1	.0	3.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	*	.8	.4	.0	.0	.0	1.3
3-4	.0	.6	.8	.0	.0	.0	1.4
5-6	.0	.2	.2	.2	.0	.0	.6
7	.0	.0	*	*	.1	.0	.2
8-9	.0	.0	.1	*	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	1.7	1.6	.4	.1	.0	3.8

HGT	TOTAL PCT
<1	
1-2	1.3
3-4	1.4
5-6	.6
7	.2
8-9	.2
10-11	.0
12	*
13-16	.1
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	3.2	.3	.0	.0	.0	7.5	
1-2	.5	19.6	8.2	.0	.0	.0	28.2	
3-4	.2	10.1	17.4	.9	.0	.0	28.7	
5-6	.0	2.2	13.6	1.7	.3	.0	17.8	
7	.0	.4	5.7	3.2	.2	.0	9.4	
8-9	.1	.2	1.7	2.0	.1	.0	4.1	
10-11	.0	.0	.8	.9	.2	.1	2.0	
12	.0	.2	.4	.4	.0	.0	1.1	
13-16	.0	.0	.1	.6	.1	.0	.8	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	35.8	48.3	9.9	1.1	.1	100.0	910

PERIOD: (OVER-ALL) 1952-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	6.6	11.6	6.9	3.5	1.6	.6	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	381	4
6-7	.0	.3	5.0	9.7	7.2	3.0	1.9	.8	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	335	6
8-9	.0	.0	1.7	3.1	5.3	4.0	2.3	.9	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	211	7
10-11	.0	.2	.5	1.4	1.8	1.1	.9	.4	.4	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	82	8
12-13	.0	.0	.6	.6	.5	.8	.3	.2	.4	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	44	9
>13	.0	.0	.0	.4	.9	.6	.2	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	29	9
INDET	.7	.6	1.6	2.1	.6	.3	.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	5
TOTAL																				1164	6
PCT	1.9	7.7	21.0	24.2	19.7	11.5	6.6	2.9	2.9	.9	.4	.2	.1	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1890-1978
(OVER-ALL) 1861-1978

AREA 0014 TONGA ISLANDS GROUP
20.4S 174.7W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	2.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.1
85/86	4.7	7.9	10.8	5.0	3.3	.0	.0	.0	.3	.3	.3	1.8	48	1.7
83/84	21.7	29.4	14.4	16.3	8.3	2.4	.5	.3	.3	.3	1.9	8.8	153	5.5
81/82	32.6	31.0	44.1	30.5	12.7	10.0	3.0	1.2	1.8	2.7	8.7	15.7	304	11.0
79/80	26.4	18.3	21.6	30.5	30.4	21.2	21.2	14.2	8.2	10.6	26.1	22.6	536	19.3
77/78	11.6	5.6	6.3	9.9	23.8	31.2	16.9	26.7	16.1	23.0	27.7	37.8	593	21.4
75/76	2.3	4.0	.9	2.0	12.7	20.6	38.7	19.1	29.6	35.5	27.7	12.0	614	22.1
73/74	.8	1.6	.9	1.4	6.6	10.6	12.9	25.8	27.3	20.9	7.1	.9	359	12.9
71/72	.0	.0	.0	.7	1.7	2.9	6.2	10.7	15.3	5.8	.3	.5	142	5.1
69/70	.0	.0	.0	.7	.6	1.2	.6	2.1	.9	.6	.0	.0	18	.7
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	2	.1
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	129	126	111	141	181	170	372	345	341	330	310	217	2773	100.0
MEAN	80.9	81.5	81.5	80.4	78.7	77.4	76.2	75.5	75.0	75.9	77.6	78.9	78.2	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1009	998	1009	1004	1010		1009		1009	142
FEB	1010	1008	1009	1008	1011		1011	1008	1010	140
MAR	1013	1010	1009	1011	1011		1011		1011	143
APR	1013	1006	1011	1009	1012	1006	1012		1012	182
MAY	1013	1007	1013	1015	1013		1014	1014	1013	189
JUN	1015	1013	1015	1015	1015		1016		1015	195
JUL	1016		1015	1015	1016	1014	1016		1016	215
AUG	1017		1014		1016		1016		1016	179
SEP	1016	1013	1013		1015		1019	1016	1015	191
OCT	1015		1014	1011	1015		1014	1010	1015	206
NOV	1012		1012	1012	1012		1012	1018	1012	172
DEC	1010		1010	1012	1011	1010	1012		1011	143
ANN	1013	1008	1012	1011	1013	1010	1013	1013	1013	2097
OBS	887	8	386	22	413	3	372	6		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	998	1000	1001	1007	1009	1012	1015	1015	1016
FEB	1000	1002	1005	1008	1010	1012	1015	1016	1017
MAR	1002	1004	1005	1009	1012	1014	1016	1018	1020
APR	1001	1003	1006	1010	1012	1014	1016	1020	1021
MAY	1004	1005	1008	1011	1013	1015	1017	1019	1021
JUN	1007	1008	1011	1014	1015	1017	1020	1021	1022
JUL	1006	1009	1012	1014	1016	1018	1021	1023	1025
AUG	1006	1006	1011	1014	1016	1018	1021	1023	1024
SEP	1001	1007	1010	1013	1015	1017	1021	1022	1023
OCT	1001	1002	1009	1013	1015	1017	1020	1021	1022
NOV	999	1005	1007	1010	1012	1014	1017	1018	1019
DEC	1000	1002	1005	1009	1011	1013	1015	1016	1017

JANUARY

PERIOD: (PRIMARY) 1952-1978
(OVER-ALL) 1870-1978

AREA 0015 NIUE ISLAND
19.1S 169.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	16.0	8.0	8.0	.0	.0	.0	.0	32.0	.0	.0	.0	.0	.0	.0	.0	68.0
E	2.1	5.3	2.1	.0	.0	.0	.0	9.6	1.6	2.1	.0	.0	.0	.0	.0	86.7
SE	.9	1.7	3.4	.0	.0	.0	.0	6.0	.9	.0	.0	.0	.0	.0	.0	93.2
S	28.0	.0	.0	.0	.0	.0	.0	28.0	.0	.0	.0	.0	.0	.0	.0	72.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	13.3	.0	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0	.0	86.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.8	3.2	2.4	.0	.0	.0	.0	10.3	.8	.8	.0	.0	.0	.0	.0	88.1
TOT OBS:	126															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.0	3.0	6.1	.0	.0	.0	.0	12.1	.0	.0	.0	.0	.0	.0	.0	87.9
06&09	3.7	3.7	3.7	.0	.0	.0	.0	11.1	.0	3.7	.0	.0	.0	.0	.0	85.2
12&15	6.5	6.5	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0	.0	.0	87.1
18&21	5.0	2.5	.0	.0	.0	.0	.0	7.5	2.5	.0	.0	.0	.0	.0	.0	90.0
TOT PCT	4.6	3.8	2.3	.0	.0	.0	.0	10.7	.8	.8	.0	.0	.0	.0	.0	87.8
TOT OBS:	131															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	3.1	3.6	.0	.0	.0		7.4	11.6	8.8	.0	9.4	18.8	6.9	.0	5.9	.0
NE	.7	2.2	6.2	.2	.0	.0		9.3	12.5	10.6	.0	17.7	.0	5.2	.0	9.2	.0
E	.0	13.3	18.6	2.9	.0	.0		34.8	13.4	28.8	.0	36.5	68.8	43.1	.0	36.8	50.0
SE	.0	9.7	12.1	1.7	.0	.0		23.4	13.0	16.9	50.0	25.0	6.3	24.1	50.0	26.3	.0
S	.0	5.0	1.2	.0	.0	.0		6.2	8.8	6.9	25.0	.0	.0	6.0	50.0	3.9	.0
SW	.0	2.9	2.9	.7	.0	.0		6.6	11.5	10.6	.0	4.2	.0	4.3	.0	7.9	.0
W	.0	1.4	1.9	.7	.0	.0		4.0	12.9	4.4	25.0	4.2	.0	.0	.0	2.6	50.0
NW	.0	.3	6.6	.0	.0	.0		6.9	14.5	10.6	.0	3.1	6.3	6.9	.0	7.2	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	2.5	.0	.0	.0	3.4	.0	.0	.0
TOT OBS	4	55	77	9	0	0	145		12.6	40	4	24	4	29	4	38	2
TOT PCT	2.8	37.9	53.1	6.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.9	3.1	2.4	.0	.0		7.4	11.6	8.0	10.7	6.1	5.6
NE	2.8	3.4	2.9	.2	.0		9.3	12.5	9.7	15.2	4.5	8.8
E	4.0	21.7	7.4	1.7	.0		34.8	13.4	26.1	41.1	37.9	37.5
SE	.9	16.9	5.5	.2	.0		23.4	13.0	19.9	22.3	27.3	25.0
S	2.6	3.6	.0	.0	.0		6.2	8.8	8.5	.0	11.4	3.8
SW	2.2	3.6	.7	.0	.0		6.6	11.5	9.7	3.6	3.8	7.5
W	.7	2.6	.7	.0	.0		4.0	12.9	6.3	3.6	.0	5.0
NW	.2	4.3	2.4	.0	.0		6.9	14.5	9.7	3.6	6.1	6.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	2.3	.0	3.0	.0
TOT OBS	24	86	32	3	0	145		12.6	44	28	33	40
TOT PCT	16.6	59.3	22.1	2.1	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	.0	50.0	45.5	2.3	.0	.0	11.0	100.0	44
06&09	.0	3.6	32.1	60.7	3.6	.0	.0	12.4	100.0	28
12&15	3.0	.0	39.4	51.5	6.1	.0	.0	12.8	100.0	33
18&21	.0	2.5	27.5	57.5	12.5	.0	.0	14.2	100.0	40
TOT	2	2	55	77	9	0	0	12.6		145
PCT	1.4	1.4	37.9	53.1	6.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	1.7	3.4	1.1		5.6
NE	.0	.6	6.3	3.6		6.7
E	2.9	10.9	15.3	9.5		5.5
SE	8.8	6.9	5.0	2.1		3.5
S	.0	.0	3.6	.8		6.0
SW	1.9	1.7	1.9	.8		3.9
W	1.5	.0	3.4	.0		4.7
NW	.0	.0	1.5	3.2		7.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.8		8.0
TOT OBS	19	26	48	26	119	5.2
TOT PCT	16.0	21.8	40.3	21.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	.8	1.7	.0	.0	.0	.0	.0	4.0	
NE	.0	.0	.0	3.4	2.3	.0	.0	.0	.0	.0	4.8	
E	.0	.0	.6	4.0	3.4	4.8	.8	.0	.0	.0	25.0	
SE	.0	.0	.2	.4	1.1	.4	.0	.0	.0	.0	20.8	
S	.0	.8	.6	1.5	.8	.6	.0	.0	.0	.0	.0	
SW	.0	.0	.2	.0	2.5	.0	.0	.0	.0	.0	3.6	
W	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	3.2	
NW	.0	.0	.4	.8	.8	1.7	.0	.0	.0	.0	.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
TOT OBS	0	1	3	15	15	9	1	0	0	0	75	119
TOT PCT	.0	.8	2.5	12.6	12.6	7.6	.8	.0	.0	.0	63.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
= OR >3500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >2000	7.4	9.8	9.8	9.8	9.8	9.8	9.8	9.8
= OR >1000	14.8	22.1	23.0	23.0	23.0	23.0	23.0	23.0
= OR >600	25.4	33.6	35.2	35.2	35.2	35.2	35.2	35.2
= OR >300	25.4	35.2	37.7	37.7	37.7	37.7	37.7	37.7
= OR >150	25.4	35.2	38.5	38.5	38.5	38.5	38.5	38.5
= OR > 0	25.4	35.2	38.5	38.5	38.5	38.5	38.5	38.5
TOTAL	31	43	47	47	47	47	47	47

TOTAL NUMBER OF OBS: 122 PCT FREQ NH <5/8: 61.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.2	14.3	9.5	23.0	11.9	11.9	9.5	4.8	11.9	.0	126

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.6	.2	.8	.0	.0	.8	.0	.0	2.4	
	NO PCP	.0	.0	.6	.2	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	1.2	.4	.8	.0	.0	.8	.0	.0	3.2	
5<10	PCP	.0	2.4	1.6	.8	.0	.0	.0	.0	.0	.0	4.8	
	NO PCP	2.0	.0	3.8	.2	.6	.2	.0	2.0	.0	.0	8.8	
	TOT %	2.0	2.4	5.4	1.0	.6	.2	.0	2.0	.0	.0	13.6	
10+	PCP	.0	.8	1.4	.4	.6	.0	.0	.0	.0	.0	3.2	
	NO PCP	5.4	6.8	29.6	21.6	2.2	5.8	4.6	3.2	.0	.8	80.0	
	TOT %	5.4	7.6	31.0	22.0	2.8	5.8	4.6	3.2	.0	.8	83.2	
	TOT OBS												125
	TOT PCT	7.4	10.0	37.6	23.4	4.2	6.0	4.6	6.0	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.8	.0	.0	.0	.0		.8	
	11-21	.0	.0	.6	.2	.0	.0	.0	.8	.0		1.6	
	22+	.0	.0	.6	.2	.0	.0	.0	.0	.0		.8	
	TOT %	.0	.0	1.2	.4	.8	.0	.0	.8	.0	.0	3.2	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.2	.8	.8	1.0	.6	.2	.0	.4	.0		4.0	
	11-21	.8	1.6	4.6	1.0	.0	.0	.0	1.6	.0		9.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	2.0	2.4	5.4	1.0	.6	.2	.0	2.0	.0	.0	13.6	
10+	0-3	.8	.8	.0	.0	.0	.0	.0	.0	.0	.8	2.4	
	4-10	2.4	1.8	13.2	7.6	1.4	1.6	1.6	.0	.0		29.6	
	11-21	2.2	4.8	15.0	12.6	1.4	3.4	2.2	3.2	.0		44.8	
	22+	.0	.2	2.8	1.8	.0	.8	.8	.0	.0		6.4	
	TOT %	5.4	7.6	31.0	22.0	2.8	5.8	4.6	3.2	.0	.8	83.2	
	TOT OBS												125
	TOT PCT	7.4	10.0	37.6	23.4	4.2	6.0	4.6	6.0	.0	.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	3.2	.0	6.5	12.9	3.2	.0	3.2	.0	.0	29.0	71.0	31
06&09	.0	.0	3.8	11.5	23.1	3.8	3.8	.0	.0	.0	46.2	53.8	26
12&15	.0	.0	3.4	17.2	10.3	10.3	.0	.0	.0	.0	41.4	58.6	29
18&21	.0	.0	2.6	12.8	7.7	12.8	.0	.0	.0	.0	35.9	64.1	39
TOT	0	1	3	15	16	10	1	1	0	0	47	78	125
PCT	.0	.8	2.4	12.0	12.8	8.0	.8	.8	.0	.0	37.6	62.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	3.0	12.1	84.8	33
06&09	.0	.0	.0	3.7	22.2	74.1	27
12&15	.0	.0	.0	.0	23.3	76.7	30
18&21	.0	.0	.0	5.0	7.5	87.5	40
TOT	0	0	0	4	20	106	130
PCT	.0	.0	.0	3.1	15.4	81.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.3	10.0	20.0	70.0	30
06&09	.0	3.8	19.2	26.9	53.8	26
12&15	.0	3.4	20.7	20.7	58.6	29
18&21	.0	2.7	16.2	21.6	62.2	37
TOT	0	4	20	27	75	122
PCT	.0	3.3	16.4	22.1	61.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.8	.0	.0	.0	1	.8
85/89	.0	.0	.0	.0	4.0	1.6	.8	.0	8	6.4
80/84	.0	.0	.0	.0	2.4	22.4	33.6	4.8	79	63.2
75/79	.0	.0	.0	.0	.0	2.4	11.2	15.2	36	28.8
70/74	.0	.0	.0	.0	.0	.0	.0	.8	1	.8
TOTAL	0	0	0	0	9	33	57	26	125	100.0
PCT	.0	.0	.0	.0	7.2	26.4	45.6	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.8	.0	.0	.0
.0	.4	3.0	1.4	.0	.2	.6	.8	.0	.0
3.6	4.4	25.2	15.6	1.2	5.0	3.2	3.4	.0	1.6
3.4	4.0	9.8	5.0	2.0	.8	.0	3.8	.0	.0
.0	.0	.6	.2	.0	.0	.0	.0	.0	.0
7.0	8.8	38.6	22.2	3.2	6.0	4.6	8.0	.0	1.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	88	83	77	76	76	82.6	48
06&09	84	83	83	80	77	77	77	80.3	29
12&15	83	82	82	80	76	76	76	79.9	34
18&21	83	82	82	81	76	74	74	79.9	41
TOT	90	88	85	81	77	76	74	80.8	152

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	22.9	40.0	20.0	17.1	78	35
06&09	.0	.0	.0	17.9	64.3	17.9	84	28
12&15	.0	.0	.0	17.2	51.7	31.0	85	29
18&21	.0	.0	2.7	27.0	45.9	24.3	84	37
TOT	0	0	9	34	57	29	83	129

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.8	.8	2	.0	1.6
5	.0	.0	.0	.8	.0	1	.0	.8
4	.0	.0	.0	.8	.0	1	.0	.8
3	.0	.0	.0	1.6	.0	2	.0	1.6
2	.0	.0	3.2	.8	.0	5	.0	4.0
1	.0	.0	8.1	.8	.0	11	.0	8.9
0	.0	4.0	11.3	.0	.0	19	.0	15.3
-1	.0	3.2	12.9	.0	.0	20	.0	16.1
-2	.0	4.8	5.6	.0	.0	13	.0	10.5
-3	.8	5.6	7.3	.0	.0	17	.0	13.7
-4	1.6	10.5	3.2	.0	.0	19	.0	15.3
-5	1.6	5.6	.0	.0	.0	9	.0	7.3
-6	.0	.8	.0	.0	.0	1	.0	.8
-7/-8	.8	2.4	.0	.0	.0	4	.0	3.2
TOTAL	6	46	64	7	1	124	0	124
PCT	4.8	37.1	51.6	5.6	.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.0	.0	.0	.0	.0	4.0
3-4	.0	1.1	2.0	.0	.0	.0	3.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.1	2.0	.0	.0	.0	7.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	.0	.0	.0	.0	1.1
1-2	.0	.0	1.7	.0	.0	.0	1.7
3-4	.0	1.4	2.0	.0	.0	.0	3.4
5-6	.0	.0	2.6	.0	.0	.0	2.6
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	1.4	8.5	.3	.0	.0	11.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	7.1	6.8	.0	.0	.0	13.9
3-4	.0	5.1	9.4	.0	.0	.0	14.5
5-6	.0	1.1	4.0	.9	.0	.0	6.0
7	.0	.0	6.3	.0	.0	.0	6.3
8-9	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.5	26.4	2.8	.0	.0	43.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	5.1	.0	.0	.0	6.0
3-4	.0	1.4	3.7	.0	.0	.0	5.1
5-6	.0	1.1	1.4	1.4	.0	.0	4.0
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	10.8	1.4	.0	.0	15.6

PERIOD: (OVER-ALL) 1963-1978 JANUARY AREA 0015 NIUE ISLAND

TABLE 18 (CONT) 19.1S 169.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	.3	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.1	3.4	.0	.0	.0	4.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.0	.0	.0	.0	2.3	.0	2.3	3.7	1.1	.0	.0	7.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	2.3	2.0	.0	.0	.0	4.3	.0	.6	2.3	.0	.0	.0	2.8	
3-4	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	1.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.3	3.1	1.1	.0	.0	6.5	.0	.6	4.5	.0	.0	.0	5.1	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.1	2.2	.0	.0	.0	.0	3.4	
1-2	1.1	16.9	18.0	.0	.0	.0	36.0	
3-4	.0	10.1	22.5	.0	.0	.0	32.6	
5-6	.0	2.2	9.0	2.2	.0	.0	13.5	
7	1.1	.0	7.9	.0	.0	.0	9.0	
8-9	.0	.0	1.1	2.2	.0	.0	3.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	1.1	.0	.0	1.1	
13-16	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.4	31.5	58.4	6.7	.0	.0	100.0	89

PERIOD: (OVER-ALL) 1950-1978 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	6.4	7.3	7.3	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	4
6-7	.0	.9	11.0	17.4	5.5	.0	3.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	5
8-9	.0	.0	1.8	7.3	6.4	2.8	5.5	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
10-11	.0	.0	.9	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.9	2.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	.0	.9	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
TOTAL	0	8	24	40	18	4	10	3	2	0	0	0	0	0	0	0	0	0	0	109	6
PCT	.0	7.3	22.0	36.7	16.5	3.7	9.2	2.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1954-1978
(OVER-ALL) 1872-1978

AREA 0015 NIUE ISLAND
19.0S 169.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	9.1	6.8	.0	.0	.0		.0	84.1
NE	.0	7.8	.0	.0	.0	.0	.0	7.8	6.3	7.8	.0	.0	.0		.0	78.1
E	.0	10.9	.0	.0	.0	.0	.0	10.9	.0	.0	.0	.0	.0		.0	89.1
SE	.0	8.2	.0	.0	.0	.0	.0	8.2	4.1	.0	.0	.0	.0		.0	87.6
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	7.7	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0		.0	92.3
W	.0	15.8	.0	.0	.0	.0	.0	15.8	.0	21.1	.0	.0	.0		.0	63.2
NW	19.0	.0	.0	.0	.0	.0	.0	19.0	.0	19.0	.0	.0	.0		.0	61.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	1.1	6.6	.0	.0	.0	.0	.0	7.7	3.3	4.4	.0	.0	.0		.0	84.6
TOT OBS:	91															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	4.2	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0		.0	95.8
06609	.0	.0	.0	.0	.0	.0	.0	.0	4.5	4.5	.0	.0	.0		.0	90.9
12615	4.8	14.3	.0	.0	.0	.0	.0	19.0	.0	14.3	.0	.0	.0		.0	66.7
18621	3.4	6.9	.0	.0	.0	.0	.0	10.3	6.9	.0	.0	.0	.0		.0	82.8
TOT PCT	2.1	6.3	.0	.0	.0	.0	.0	8.3	3.1	4.2	.0	.0	.0		.0	84.4
TOT OBS:	96															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	7.5	.9	.0	.7	.0		11.1	9.5	7.0	.0	9.1	43.8	8.8	37.5	13.4	.0
NE	2.1	10.6	4.2	.0	.2	.0		17.2	8.4	19.0	.0	9.1	6.3	21.3	25.0	23.2	.0
E	1.7	8.5	7.3	.0	.0	.0		17.5	9.3	15.0	.0	4.5	50.0	26.8	37.5	18.8	.0
SE	.9	9.0	15.6	1.9	.0	.0		27.4	12.6	32.0	33.3	34.1	.0	15.0	.0	26.8	100.0
S	.0	4.5	2.1	.0	.0	.0		6.6	8.8	10.0	.0	10.2	.0	5.0	.0	4.5	.0
SW	.0	3.1	.2	.0	.0	.0		3.3	7.2	5.0	.0	5.7	.0	.0	.0	3.6	.0
W	.0	2.8	2.6	.0	.0	.0		5.4	12.0	4.0	33.3	13.6	.0	.0	.0	2.7	.0
NW	.0	4.0	1.9	.0	.0	.0		5.9	9.5	.0	33.3	9.1	.0	11.3	.0	3.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7							5.7	.0	8.0	.0	4.5	.0	10.0	.0	3.6	.0
TOT OBS	13	53	37	2	1	0	106		9.6	25	3	22	4	20	2	28	2
TOT PCT	12.3	50.0	34.9	1.9	.9	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.5	5.9	.0	.0	.7		11.1	9.5	6.3	14.4	11.4	12.5
NE	6.4	10.6	.0	.0	.2		17.2	8.4	17.0	8.7	21.6	21.7
E	6.6	9.9	.9	.0	.0		17.5	9.3	13.4	11.5	29.5	17.5
SE	3.3	17.0	6.1	.9	.0		27.4	12.6	32.1	28.8	13.6	31.7
S	3.5	1.7	1.4	.0	.0		6.6	8.8	8.9	8.7	4.5	4.2
SW	2.1	1.2	.0	.0	.0		3.3	7.2	4.5	4.8	.0	3.3
W	.0	4.5	.9	.0	.0		5.4	12.0	7.1	11.5	.0	2.5
NW	.9	5.0	.0	.0	.0		5.9	9.5	3.6	7.7	10.2	3.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.7						5.7	.0	7.1	3.8	9.1	3.3
TOT OBS	35	59	10	1	1	106		9.6	28	26	22	30
TOT PCT	33.0	55.7	9.4	.9	.9		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1954-1978
(OVER-ALL) 1872-1978

AREA 0015 NIUE ISLAND
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.1	3.6	50.0	32.1	3.6	3.6	.0	10.1	100.0	28
06&09	3.8	11.5	50.0	34.6	.0	.0	.0	9.4	100.0	26
12&15	9.1	13.6	40.9	36.4	.0	.0	.0	8.2	100.0	22
18&21	3.3	.0	56.7	36.7	3.3	.0	.0	10.4	100.0	30
TOT	6	7	53	37	2	1	0	9.6		106
PCT	5.7	6.6	50.0	34.9	1.9	.9	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	3.0	4.2	2.4		5.1
NE	.6	6.5	5.7	5.1		5.5
E	5.4	2.1	7.4	3.0		4.6
SE	3.6	10.1	11.3	1.5		4.7
S	1.2	2.7	2.7	.0		3.9
SW	1.2	.6	1.8	.3		4.3
W	.0	.0	3.6	.9		6.9
NW	.0	1.2	1.5	2.4		6.7
VAR	.0	.0	.0	.0		.0
CALM	3.6	1.2	1.2	.0		3.2
TOT OBS	15	23	33	13	84	4.9
TOT PCT	17.9	27.4	39.3	15.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.9	.0	1.2	.0	.0	.0	.0	9.8	
NE	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	13.7	
E	.0	.0	.0	3.0	3.6	.0	.0	.0	.0	.0	11.3	
SE	.0	.0	.0	.0	.0	7.4	1.2	.0	.0	.0	17.9	
S	.0	.0	.0	1.2	.6	.9	.0	.0	.0	.0	3.9	
SW	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	1.8	
W	.0	.0	.0	.0	.9	2.4	.0	.0	.0	.0	1.2	
NW	.0	.0	1.2	1.5	1.2	.0	.0	.0	.0	.0	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	4.8	
TOT OBS	0	0	1	9	8	10	1	0	0	0	55	84
TOT PCT	.0	.0	1.2	10.7	9.5	11.9	1.2	.0	.0	.0	65.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >2000	9.0	12.4	12.4	12.4	12.4	12.4	12.4	12.4
* OR >1000	16.9	22.5	22.5	22.5	22.5	22.5	22.5	22.5
* OR >600	24.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
* OR >300	24.7	34.8	34.8	34.8	34.8	34.8	34.8	34.8
* OR >150	24.7	34.8	34.8	34.8	34.8	34.8	34.8	34.8
* OR > 0	24.7	34.8	34.8	34.8	34.8	34.8	34.8	34.8
TOTAL	22	31	31	31	31	31	31	31

TOTAL NUMBER OF OBS: 84 PCT FREQ NH <5/8: 65.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.1	19.1	18.1	17.0	8.5	12.8	7.4	3.2	12.8	.0	94

PERIOD: (PRIMARY) 1956-1978
(OVER-ALL) 1872-1978

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
	TOT %	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
5<10	PCP	.0	.0	1.1	2.2	.0	.0	.0	1.1	.0	.0	4.4	
	NO PCP	1.9	.3	1.9	5.5	.0	.0	1.1	.3	.0	.0	11.0	
	TOT %	1.9	.3	3.0	7.7	.0	.0	1.1	1.4	.0	.0	15.4	
10+	PCP	.0	1.4	.8	.6	.0	.3	.8	.0	.0	.0	3.3	
	NO PCP	9.1	15.9	13.7	19.0	6.0	3.3	3.3	4.4	.0	5.5	80.2	
	TOT %	9.1	17.3	14.6	19.0	6.0	3.6	4.1	4.4	.0	5.5	83.5	
	TOT OBS												91
	TOT PCT	12.1	17.6	17.6	26.6	6.0	3.6	5.2	5.8	.0	5.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	1.1	.0	.0	.0	.0	.0	.0	.0	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
5<10	0-3	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.1	
	4-10	1.9	.0	.0	1.1	.0	.0	.0	1.4	.0		4.4	
	11-21	.0	.3	1.9	4.4	.0	.0	1.1	.0	.0		7.7	
	22+	.0	.0	.0	2.2	.0	.0	.0	.0	.0		2.2	
	TOT %	1.9	.3	3.0	7.7	.0	.0	1.1	1.4	.0	.0	15.4	
10+	0-3	2.2	2.5	.8	1.1	.0	.0	.0	.0	.0	5.5	12.1	
	4-10	6.9	10.2	9.1	6.9	4.4	3.3	2.2	2.2	.0		45.1	
	11-21	.0	4.7	4.7	11.0	1.6	.3	1.9	2.2	.0		26.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	9.1	17.3	14.6	19.0	6.0	3.6	4.1	4.4	.0	5.5	83.5	
	TOT OBS												91
	TOT PCT	12.1	17.6	17.6	26.6	6.0	3.6	5.2	5.8	.0	5.5	100.0	

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PERIOD: (PRIMARY) 1954-1978
(OVER-ALL) 1872-1978

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	[illegible]	9.1	18.2	.0	.0	.0	.0	36.4	63.6	22
06&09	.0	.0	.0	.0	4.5	9.1	4.5	.0	.0	.0	18.2	81.8	22
12&15	.0	.0	5.3	21.1	10.5	5.3	.0	.0	.0	.0	42.1	57.9	19
18&21	.0	.0	.0	14.3	14.3	10.7	.0	.0	.0	.0	39.3	60.7	28
TOT	0	0	1	10	9	10	1	0	0	0	31	60	91
PCT	.0	.0	1.1	11.0	9.9	11.0	1.1	.0	.0	.0	34.1	65.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	12.5	87.5	24
06&09	.0	.0	.0	.0	4.5	95.5	22
12&15	.0	.0	.0	.0	19.0	81.0	21
18&21	.0	.0	.0	3.4	24.1	72.4	29
TOT	0	0	0	1	15	80	96
PCT	.0	.0	.0	1.0	15.6	83.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	9.1	27.3	63.6	22
06&09	.0	.0	.0	18.2	81.8	22
12&15	.0	5.6	27.8	16.7	55.6	18
18&21	.0	.0	14.8	25.9	59.3	27
TOT	0	1	11	20	58	89
PCT	.0	1.1	12.4	22.5	65.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	1.0	.0	1.0	.0	.0	2	2.0
85/89	.0	.0	.0	.0	1.0	2.0	.0	.0	3	3.0
80/84	.0	.0	.0	.0	9.1	32.3	29.3	2.0	72	72.7
75/79	.0	.0	.0	.0	.0	4.0	11.1	6.1	21	21.2
70/74	.0	.0	.0	.0	.0	.0	.0	1.0	1	1.0
TOTAL	0	0	0	1	10	39	40	9	99	100.0
PCT	.0	.0	.0	1.0	10.1	39.4	40.4	9.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	.8	.0	.0	.0	.0	.0	.0	1.0
.0	1.0	.8	.3	.0	.0	.0	.0	.0	1.0
7.6	11.6	11.9	22.2	7.1	2.3	5.1	2.0	.0	3.0
3.5	3.3	3.8	5.3	.0	1.3	.8	2.3	.0	1.0
.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0
11.1	16.2	17.2	27.8	7.1	3.5	5.8	5.3	.0	6.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	93	92	92	83	78	77	77	83.3	29
06&09	84	83	83	82	77	76	76	81.3	27
12&15	84	83	83	80	77	73	73	80.0	24
18&21	84	83	83	80	77	77	77	80.1	33
TOT	93	92	85	81	77	73	73	81.2	113

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.0	20.0	48.0	24.0	4.0	76	25
06&09	.0	.0	15.4	50.0	30.8	3.8	77	26
12&15	.0	.0	.0	20.8	66.7	12.5	85	24
18&21	.0	.0	3.1	31.3	46.9	18.8	84	32
TOT	0	1	10	40	45	11	80	107

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PERIOD: (PRIMARY) 1954-1978
(OVER-ALL) 1872-1978

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	1.1	1	.0	1.1
5	.0	.0	.0	1.1	1.1	.0	2	.0	2.3
4	.0	.0	.0	.0	1.1	.0	1	.0	1.1
3	.0	.0	3.4	1.1	.0	.0	4	.0	4.5
2	.0	.0	1.1	.0	.0	.0	1	.0	1.1
1	.0	2.3	4.5	.0	.0	.0	6	.0	6.8
0	.0	1.1	10.2	.0	.0	.0	10	.0	11.4
-1	.0	6.8	9.1	.0	.0	.0	14	.0	15.9
-2	.0	1.1	13.6	.0	.0	.0	13	.0	14.8
-3	.0	5.7	11.4	.0	.0	.0	15	.0	17.0
-4	.0	9.1	1.1	.0	.0	.0	9	.0	10.2
-5	.0	6.8	1.1	.0	.0	.0	7	.0	8.0
-6	1.1	3.4	.0	.0	.0	.0	4	.0	4.5
-11/-13	1.1	.0	.0	.0	.0	.0	1	.0	1.1
TOTAL	2	32	49	2	2	1	88	0	88
PCT	2.3	36.4	55.7	2.3	2.3	1.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.2	5.2	.0	.0	.0	.0	8.3
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	4.4	.0	.0	.0	.0	4.4
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.2	11.1	1.6	.0	.0	.0	15.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	2.8	.0	.0	.0	.0	4.8
1-2	1.6	7.1	.4	.0	.0	.0	9.1
3-4	.0	.0	3.6	.0	.0	.0	3.6
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.6	9.9	5.6	.0	.0	.0	19.0

F

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.0	.0	.0	.0	.0	1.2
1-2	.0	10.3	1.2	.0	.0	.0	11.5
3-4	.0	.0	4.0	.0	.0	.0	4.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.6	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	10.3	6.7	.0	.0	.0	18.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	.0	.0	.0	.0	.0	1.6
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	4.8	9.9	.0	.0	.0	14.7
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	4.8	.0	.0	.0	4.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	6.3	16.3	.0	.0	.0	24.2

PERIOD: (OVER-ALL) 1963-1978 FEBRUARY AREA 0015 NIUE ISLAND

TABLE 18 (CONT) 19.0S 169.7W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.0	.0	.0	.0	2.8
3-4	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	.0	.0	.0	.0	4.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.0	.0	.0	.0	.0	2.0
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	.0	.0	.0	.0	1.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.4	3.2	.0	.0	.0	3.6	
5-6	.0	1.6	.0	.0	.0	.0	1.6	
7	.0	1.6	.0	.0	.0	.0	1.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	5.2	3.2	.0	.0	.0	8.3	93.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.3	9.5	.0	.0	.0	.0	23.8	
1-2	1.6	27.0	1.6	.0	.0	.0	30.2	
3-4	.0	11.1	20.6	.0	.0	.0	31.7	
5-6	.0	1.6	4.8	.0	.0	.0	6.3	
7	.0	1.6	6.3	.0	.0	.0	7.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.9	50.8	33.3	.0	.0	.0	100.0	63

PERIOD: (OVER-ALL) 1950-1978 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.6	9.1	19.5	5.2	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	3
6-7	.0	.0	3.9	9.1	9.1	.0	3.9	2.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
8-9	.0	.0	1.3	2.6	2.6	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
10-11	.0	.0	.0	.0	1.3	.0	2.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
12-13	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
>13	.0	.0	.0	.0	.0	1.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
INDET	1.3	1.3	.0	3.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
TOTAL	3	8	19	10	14	5	5	4	3	0	0	0	0	0	0	0	0	0	0	77	6
PCT	3.9	10.4	24.7	20.8	18.2	6.5	6.5	5.2	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1957-1977
(OVER-ALL) 1872-1977

AREA 0015 NIUE ISLAND
19.0S 169.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	8.5	.0	.0	.0	.0	.0	.0	8.5	.0	.0	.0	.0	.0	.0	.0	91.5
NE	.0	.0	9.9	.0	.0	.0	.0	9.9	4.9	.0	.0	.0	.0	.0	.0	85.2
E	3.3	7.4	.0	.0	.0	.0	.0	10.7	3.3	.0	.0	.0	.0	.0	.0	86.1
SE	6.5	5.6	.0	.0	.0	.0	.0	12.1	.0	3.2	.0	.0	.0	.0	.0	84.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	38.5	.0	.0	.0	.0	.0	.0	61.5
W	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0
NW	15.4	.0	.0	.0	.0	.0	.0	15.4	7.7	7.7	.0	.0	.0	.0	.0	76.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	85.7
TOT PCT	5.0	3.3	1.7	.0	.0	.0	.0	9.9	5.8	1.7	.0	.0	.0	.0	.0	83.5
TOT OBS:	121															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	11.1	2.8	.0	.0	.0	.0	.0	13.9	.0	5.6	.0	.0	.0	.0	.0	83.3
06&09	6.9	6.9	.0	.0	.0	.0	.0	13.8	6.9	3.4	.0	.0	.0	.0	.0	75.9
12&15	.0	3.1	3.1	.0	.0	.0	.0	6.3	6.3	3.1	.0	.0	.0	.0	.0	84.4
18&21	.0	.0	3.6	.0	.0	.0	.0	3.6	10.7	.0	.0	.0	.0	.0	.0	85.7
TOT PCT	4.8	3.2	1.6	.0	.0	.0	.0	9.6	5.6	3.2	.0	.0	.0	.0	.0	82.4
TOT OBS:	125															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	4.2	6.0	.5	.0	.0		11.7	11.9	16.1	8.3	8.6	8.3	8.1	33.3	7.4	25.0
NE	.8	8.0	5.5	.0	.0	.0		14.3	9.4	19.0	33.3	6.9	.0	12.9	.0	20.4	.0
E	.0	10.7	15.3	.7	.0	.0		26.7	12.1	24.4	12.5	25.0	16.7	32.3	50.0	28.7	.0
SE	.7	7.2	11.2	3.3	.7	.0		23.0	14.8	15.5	37.5	30.2	16.7	26.6	16.7	25.0	.0
S	.7	1.7	.0	.0	.0	.0		2.3	5.2	4.2	.0	.0	.0	2.4	.0	3.7	.0
SW	.0	3.0	.0	.0	.0	.0		3.0	6.8	5.4	.0	.0	.0	4.0	.0	3.7	.0
W	.0	1.7	1.2	.0	.0	.0		2.8	11.0	1.8	.0	3.4	.0	2.4	.0	6.5	.0
NW	.2	2.3	7.5	.2	.0	.0		10.2	12.7	8.9	8.3	22.4	25.0	4.8	.0	4.6	8.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.0							6.0	.0	4.8	.0	3.4	33.3	6.5	.0	.0	66.7
TOT OBS	14	58	70	7	1	0	150		11.3	42	6	29	6	31	6	27	3
TOT PCT	9.3	38.7	46.7	4.7	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	5.2	3.0	.5	.0		11.7	11.9	15.1	8.6	12.2	9.2
NE	2.5	11.2	.7	.0	.0		14.3	9.4	20.8	5.7	10.8	18.3
E	3.0	20.5	2.5	.7	.0		26.7	12.1	22.9	23.6	35.1	25.8
SE	2.8	10.7	8.2	1.3	.0		23.0	14.8	18.2	27.9	25.0	22.5
S	1.8	.5	.0	.0	.0		2.3	5.2	3.6	.0	2.0	3.3
SW	1.5	1.5	.0	.0	.0		3.0	6.8	4.7	.0	3.4	3.3
W	.5	1.7	.7	.0	.0		2.8	11.0	1.6	2.9	2.0	5.8
NW	2.2	6.2	1.7	.2	.0		10.2	12.7	8.9	22.9	4.1	5.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.0						6.0	.0	4.2	8.6	5.4	6.7
TOT OBS	35	86	25	4	0	150		11.3	48	35	37	30
TOT PCT	23.3	57.3	16.7	2.7	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1957-1977
(OVER-ALL) 1872-1977

AREA 0015 NIUE ISLAND
19.0S 169.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.2	6.3	41.7	43.8	4.2	.0	.0	10.7	100.0	48
06&09	8.6	.0	17.1	65.7	8.6	.0	.0	13.2	100.0	35
12&15	5.4	.0	45.9	43.2	2.7	2.7	.0	11.7	100.0	37
18&21	6.7	6.7	50.0	33.3	3.3	.0	.0	9.4	100.0	30
TOT	9	5	58	70	7	1	0	11.3		150
PCT	6.0	3.3	38.7	46.7	4.7	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.9	6.1	1.7		5.7
NE	.9	2.8	7.5	2.8		5.7
E	5.2	5.4	13.0	2.6		4.7
SE	3.3	9.7	10.1	4.0		4.8
S	.0	.0	.7	.9		6.7
SW	.9	.9	.9	.2		3.6
W	.0	.0	.0	.7		8.0
NW	.5	1.9	3.1	5.0		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.9	.9	3.8	.0		4.5
TOT OBS	15	24	48	19	106	5.1
TOT PCT	14.2	22.6	45.3	17.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	2.4	.9	.0	1.9	.0	.0	.0	5.0	
NE	.0	.0	.0	.2	.9	3.8	.0	.0	.0	.0	9.2	
E	.5	.0	.9	2.4	1.9	.0	.0	.0	.0	.0	20.5	
SE	.5	.0	.0	5.2	1.9	2.1	.9	.0	.0	.0	16.5	
S	.0	.0	.0	.6	.0	1.7	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	2.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
NW	.0	.0	.9	.2	3.8	.9	.0	.0	.0	.0	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	4.7	
TOT OBS	1	0	2	11	12	10	3	0	0	0	67	106
TOT PCT	.9	.0	1.9	10.4	11.3	9.4	2.8	.0	.0	.0	63.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7
= OR >2000	10.0	11.8	11.8	11.8	11.8	11.8	11.8	11.8
= OR >1000	19.1	22.7	22.7	22.7	22.7	22.7	22.7	22.7
= OR >600	28.2	32.7	32.7	32.7	32.7	32.7	32.7	32.7
= OR >300	29.1	33.6	34.5	34.5	34.5	34.5	34.5	34.5
= OR >150	29.1	33.6	34.5	34.5	34.5	34.5	34.5	34.5
= OR > 0	30.0	34.5	35.5	35.5	35.5	35.5	35.5	35.5
TOTAL	33	38	39	39	39	39	39	39

TOTAL NUMBER OF OBS: 110 PCT FREQ NH <5/8: 64.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.8	11.7	26.7	15.8	10.0	10.0	9.2	7.5	8.3	.0	120

MARCH

PERIOD: (PRIMARY) 1957-1977
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.8	.0	.0	.0	.0	.8	.0	.0	1.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.8	.0	.0	.0	.0	.8	.0	.0	1.7	
5<10	PCP	.0	.0	.8	1.7	.0	.0	.0	.8	.0	.0	3.3	
	NO PCP	.6	2.5	.8	2.7	.6	.0	.0	.2	.0	1.7	9.1	
	TOT %	.6	2.5	1.7	4.3	.6	.0	.0	1.0	.0	1.7	12.4	
10+	PCP	.8	1.7	1.0	1.4	.0	.0	.0	.0	.0	.0	5.0	
	NO PCP	8.3	12.6	21.7	19.8	1.4	2.7	1.4	8.9	.0	4.1	81.0	
	TOT %	9.1	14.3	22.7	21.3	1.4	2.7	1.4	8.9	.0	4.1	86.0	
	TOT OBS												121
	TOT PCT	9.7	16.7	25.2	25.6	2.1	2.7	1.4	10.7	.0	5.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.8	.0	.0	.0	.0	.8	.0		1.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.8	.0	.0	.0	.0	.8	.0	.0	1.7	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	
	4-10	.0	.0	.0	1.9	.6	.0	.0	.8	.0		3.3	
	11-21	.0	2.5	1.7	.0	.0	.0	.0	.0	.0		4.1	
	22+	.6	.0	.0	2.5	.0	.0	.0	.2	.0		3.3	
	TOT %	.6	2.5	1.7	4.3	.6	.0	.0	1.0	.0	1.7	12.4	
10+	0-3	1.2	1.0	.0	.8	.0	.0	.0	.2	.0	4.1	7.4	
	4-10	2.9	8.9	9.9	6.2	1.4	2.7	1.4	2.1	.0		35.5	
	11-21	5.0	4.3	12.0	12.6	.0	.0	.0	6.6	.0		40.5	
	22+	.0	.0	.8	1.7	.0	.0	.0	.0	.0		2.5	
	TOT %	9.1	14.3	22.7	21.3	1.4	2.7	1.4	8.9	.0	4.1	86.0	
	TOT OBS												121
	TOT PCT	9.7	16.7	25.2	25.6	2.1	2.7	1.4	10.7	.0	5.8	100.0	

PERIOD: (PRIMARY) 1957-1977
(OVER-ALL) 1872-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.9	11.8	14.7	11.8	8.8	.0	.0	.0	50.0	50.0	34
06&09	.0	.0	3.4	10.3	20.7	6.9	.0	.0	.0	.0	41.4	58.6	29
12&15	3.4	.0	.0	13.8	.0	3.4	.0	.0	.0	.0	20.7	79.3	29
18&21	.0	.0	.0	.0	4.0	12.0	.0	.0	.0	.0	16.0	84.0	25
TOT	1	0	2	11	12	10	3	0	0	0	39	78	117
PCT	.9	.0	1.7	9.4	10.3	8.5	2.6	.0	.0	.0	33.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	5.6	13.9	80.6	36
06&09	.0	.0	.0	.0	20.7	79.3	29
12&15	.0	.0	.0	.0	6.3	93.8	32
18&21	.0	.0	.0	.0	7.1	92.9	28
TOT	0	0	0	2	15	108	125
PCT	.0	.0	.0	1.6	12.0	86.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.9	14.7	35.3	50.0	34
06&09	.0	3.7	14.8	29.6	55.6	27
12&15	3.7	3.7	18.5	3.7	77.8	27
18&21	.0	.0	.0	18.2	81.8	22
TOT	1	3	14	25	71	110
PCT	.9	2.7	12.7	22.7	64.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.8	.0	1	.8
85/89	.0	.0	.0	.0	.0	3.3	1.6	.0	6	4.9
80/84	.0	.0	.0	.8	2.5	27.0	32.8	5.7	84	68.9
75/79	.0	.0	.0	.0	.8	.8	12.3	10.7	30	24.6
70/74	.0	.0	.0	.0	.0	.0	.0	.8	1	.8
TOTAL	0	0	0	1	4	38	58	21	122	100.0
PCT	.0	.0	.0	.8	3.3	31.1	47.5	17.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
1.6	1.6	.8	.0	.0	.0	.0	.8	.0	.0
6.1	12.3	18.2	18.2	.6	1.2	1.8	7.0	.0	3.3
3.1	2.7	5.5	5.9	.6	.8	1.6	2.7	.0	1.6
.0	.0	.0	.0	.0	.0	.0	.8	.0	.0
10.9	16.6	25.4	24.2	1.2	2.0	3.5	11.3	.0	4.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	90	87	83	78	74	74	82.5	49
06&09	83	82	82	81	77	75	75	80.3	35
12&15	84	83	83	81	78	78	78	80.7	37
18&21	83	82	82	80	76	75	75	80.0	30
TOT	91	90	85	81	77	75	74	81.1	151

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.7	5.4	27.0	51.4	13.5	82	37
06&09	.0	.0	6.1	27.3	45.5	21.2	83	33
12&15	.0	.0	.0	34.5	51.7	13.8	83	29
18&21	.0	.0	.0	40.7	37.0	22.2	83	27
TOT	0	1	4	40	59	22	82	126

PERIOD: (PRIMARY) 1957-1977
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.9	.0	1	.0	.9
6	.0	.0	.9	.0	.0	1	.0	.9
4	.0	.0	.9	.0	.9	2	.0	1.8
3	.0	.0	.9	.9	.0	2	.0	1.8
2	.0	.0	.0	2.7	.0	3	.0	2.7
1	.0	.9	8.0	.0	.0	10	.0	8.9
0	.0	1.8	14.3	.0	.0	18	.0	16.1
-1	.9	1.8	16.1	.0	.0	21	.0	18.8
-2	.0	8.0	5.4	.0	.0	15	.0	13.4
-3	.0	7.1	1.8	.0	.0	10	.0	8.9
-4	.0	5.4	7.1	.0	.0	14	.0	12.5
-5	.9	6.3	2.7	.0	.0	11	.0	9.8
-6	.9	1.8	.0	.0	.0	3	.0	2.7
-7/-8	.0	.9	.0	.0	.0	1	.0	.9
TOTAL	3	38	65	5	1	112	0	112
PCT	2.7	33.9	58.0	4.5	.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.1	1.4	.0	.0	.0	.0	3.4
1-2	.0	1.4	1.0	.0	.0	.0	2.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	2.7	2.1	1.0	.0	.0	7.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	.0	.0	.0	.0	1.0
1-2	.0	5.8	1.7	.0	.0	.0	7.5
3-4	1.4	5.5	4.1	.0	.0	.0	11.0
5-6	.0	.0	2.7	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	12.0	8.6	.0	.0	.0	22.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.8	.0	.0	.0	.0	5.8
1-2	.0	1.0	4.8	.0	.0	.0	5.8
3-4	.0	2.7	4.8	1.4	.0	.0	8.9
5-6	.0	1.4	4.5	.0	.0	.0	5.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.0	15.4	1.4	.0	.0	27.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	1.7	.0	.0	.0	.0	3.1
1-2	.0	4.5	.3	.0	.0	.0	4.8
3-4	.0	1.4	4.8	.0	.0	.0	6.2
5-6	.0	2.7	7.9	.0	.0	.0	10.6
7	.0	.0	2.7	.0	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	10.3	15.8	.0	.0	.0	27.4

PERIOD: (OVER-ALL) 1963-1977

MARCH

AREA 0015 NIUE ISLAND
19.0S 169.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.0	.0	.0	.0	1.0	.0	3.1	.0	.0	.0	.0	3.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.3	.0	.0	.0	.3	
3-4	.0	1.4	.0	.0	.0	.0	1.4	.0	2.7	.0	.0	.0	.0	2.7	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4	.3	2.7	.7	.3	.0	.0	4.1	95.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.7	10.7	.0	.0	.0	.0	21.3	
1-2	.0	16.0	8.0	.0	.0	.0	24.0	
3-4	1.3	13.3	13.3	1.3	.0	.0	29.3	
5-6	.0	4.0	16.0	.0	.0	.0	20.0	
7	.0	.0	2.7	.0	.0	.0	2.7	
8-9	.0	.0	1.3	.0	.0	.0	1.3	
10-11	.0	.0	.0	1.3	.0	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.0	44.0	41.3	2.7	.0	.0	100.0	75

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	2.0	17.0	4.0	3.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4
6-7	.0	1.0	5.0	5.0	9.0	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	6
8-9	.0	.0	4.0	.0	3.0	8.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
10-11	.0	1.0	.0	3.0	.0	2.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
12-13	.0	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
>13	.0	.0	.0	1.0	.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	8.0	2.0	2.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	2
TOTAL	10	6	28	20	15	13	5	2	0	1	0	0	0	0	0	0	0	0	0	100	5
PCT	10.0	6.0	28.0	20.0	15.0	13.0	5.0	2.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1888-1977

AREA 0015 NIUE ISLAND
19.1S 169.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	11.4	.0	.0	.0	.0	.0	11.4	8.6	.0	.0	.0	.0	.0	.0	80.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0	88.9
E	4.4	4.4	.0	.0	.0	.0	.0	8.8	8.8	.0	.0	.0	.0	.0	.0	82.4
SE	.0	2.6	.0	.0	.0	.0	.0	2.6	2.6	2.6	.0	.0	.0	.0	.0	92.3
S	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0	92.3
SW	22.2	.0	5.6	.0	.0	.0	.0	27.8	.0	.0	.0	.0	.0	.0	.0	72.2
W	.0	10.3	10.3	.0	.0	.0	.0	20.7	.0	.0	.0	.0	.0	.0	.0	79.3
NW	36.4	9.1	.0	.0	.0	.0	.0	45.5	9.1	.0	.0	.0	.0	.0	.0	45.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.7	3.5	.9	.0	.0	.0	.0	7.1	5.3	.9	.0	.0	.0	.0	.0	86.7
TOT OBS:	113															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	2.8	.0	.0	.0	.0	.0	2.8	8.3	.0	.0	.0	.0	.0	.0	88.9
06&09	.0	4.2	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	95.8
12&15	.0	9.1	.0	.0	.0	.0	.0	9.1	4.5	4.5	.0	.0	.0	.0	.0	81.8
18&21	8.8	2.9	2.9	.0	.0	.0	.0	14.7	5.9	.0	.0	.0	.0	.0	.0	79.4
TOT PCT	2.6	4.3	.9	.0	.0	.0	.0	7.8	5.2	.9	.0	.0	.0	.0	.0	86.2
TOT OBS:	116															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	3.4	1.9	1.0	.0	.0		7.1	10.9	19.1	.0	7.6	.0	.0	.0	3.6	.0
NE	1.4	4.1	1.0	.2	.0	.0		6.7	7.8	9.9	.0	5.4	.0	3.7	.0	10.7	.0
E	3.1	10.9	9.0	.7	.0	.0		23.6	9.8	21.1	20.0	21.7	30.0	30.6	17.9	23.6	.0
SE	1.7	18.1	12.1	3.4	.0	.0		35.3	11.7	31.6	80.0	33.7	60.0	29.6	53.6	25.0	.0
S	.0	7.8	4.5	.0	.0	.0		12.2	10.5	11.8	.0	9.8	10.0	20.4	28.6	8.6	.0
SW	.0	2.2	.9	.0	.0	.0		3.1	10.0	2.0	.0	4.3	.0	.9	.0	7.1	.0
W	.0	3.4	1.6	.0	.0	.0		5.0	8.3	2.0	.0	7.6	.0	6.5	.0	8.6	.0
NW	.0	1.7	.9	.2	.0	.0		2.8	10.4	2.6	.0	5.4	.0	.9	.0	4.3	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0	.0	.0	4.3	.0	7.4	.0	8.6	.0
TOT OBS	16	75	46	8	0	0	145		10.0	38	10	23	5	27	7	35	0
TOT PCT	11.0	51.7	31.7	5.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.1	2.2	1.2	.5	.0		7.1	10.9	15.1	6.3	.0	3.6
NE	3.1	2.8	.9	.0	.0		6.7	7.8	7.8	4.5	2.9	10.7
E	7.4	13.4	2.8	.0	.0		23.6	9.8	20.8	23.2	27.9	23.6
SE	8.8	17.4	9.1	.0	.0		35.3	11.7	41.7	38.4	34.6	25.0
S	3.6	6.0	2.6	.0	.0		12.2	10.5	9.4	9.8	22.1	8.6
SW	.2	2.9	.0	.0	.0		3.1	10.0	1.6	3.6	.7	7.1
W	1.2	3.8	.0	.0	.0		5.0	8.3	1.6	6.3	5.1	8.6
NW	.2	2.4	.0	.2	.0		2.8	10.4	2.1	4.5	.7	4.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	.0	3.6	5.9	8.6
TOT OBS	66	74	24	1	0	145		10.0	48	28	34	35
TOT PCT	31.7	51.0	16.6	.7	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1888-1977

AREA 0015 NIUE ISLAND
19.1S 169.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	4.2	62.5	25.0	8.3	.0	.0	10.8	100.0	48
06&09	3.6	3.6	42.9	35.7	14.3	.0	.0	12.0	100.0	28
12&15	5.9	11.8	52.9	29.4	.0	.0	.0	8.5	100.0	34
18&21	8.6	8.6	42.9	40.0	.0	.0	.0	8.8	100.0	35
TOT	6	10	75	46	8	0	0	10.0		145
PCT	4.1	6.9	51.7	31.7	5.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	2.2	2.2	2.7		5.3
NE	.5	2.7	3.4	2.2		5.6
E	4.2	5.4	6.6	3.7		4.9
SE	2.2	15.0	15.4	1.2		4.6
S	4.2	3.9	2.7	2.0		4.0
SW	.2	1.7	1.5	.0		4.5
W	1.0	3.2	2.2	.7		4.6
NW	.0	.2	1.2	2.2		7.2
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.0	.0	.0		3.0
TOT OBS	15	36	36	15	102	4.8
TOT PCT	14.7	35.3	35.3	14.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.7	1.0	1.0	.5	.0	.0	.0	.0	5.4	
NE	.0	.0	.0	1.0	1.0	.0	1.0	.5	.0	.0	5.4	
E	.0	.0	.0	4.2	2.7	.0	.0	.5	.0	.0	12.5	
SE	.0	.0	.0	2.7	4.2	1.0	.0	1.0	.0	.0	25.0	
S	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	10.8	
SW	.0	.2	.0	.0	1.0	.0	.0	.0	.0	.0	2.2	
W	.0	.7	.0	.7	.0	.7	.0	.0	.0	.0	4.9	
NW	.0	.0	.2	.2	1.0	.7	.0	.0	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	0	1	1	11	11	4	1	2	0	0	71	102
TOT PCT	.0	1.0	1.0	10.8	10.8	3.9	1.0	2.0	.0	.0	69.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >3500	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
* OR >1000	15.4	17.3	17.3	17.3	17.3	17.3	17.3	17.3
* OR >600	22.1	26.9	28.8	28.8	28.8	28.8	28.8	28.8
* OR >300	22.1	26.9	29.8	29.8	29.8	29.8	29.8	29.8
* OR >150	23.1	27.9	30.8	30.8	30.8	30.8	30.8	30.8
* OR > 0	23.1	27.9	30.8	30.8	30.8	30.8	30.8	30.8
TOTAL	24	29	32	32	32	32	32	32

TOTAL NUMBER OF OBS: 104 PCT FREQ NH <5/8: 69.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.9	6.6	18.9	23.6	17.9	8.5	7.5	6.6	9.4	.0	106

APRIL

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1888-1977

AREA 0015 NIUE ISLAND
19.1S 169.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.9	.0	.0	.0	.0	.0	.7	.2	.0	.0	1.8	
	NO PCP	.7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.9	
	TOT %	1.5	.0	.0	.0	.0	.0	.7	.4	.0	.0	2.7	
5<10	PCP	.0	.0	.9	.0	.0	.0	.0	.9	.0	.0	1.8	
	NO PCP	1.5	.2	1.3	2.2	.0	.0	.0	.0	.0	.0	5.3	
	TOT %	1.5	.2	2.2	2.2	.0	.0	.0	.9	.0	.0	7.1	
10+	PCP	.0	.0	.9	.9	.0	1.1	.7	.0	.0	.0	3.5	
	NO PCP	4.6	7.7	17.0	31.4	11.5	2.9	5.1	1.1	.0	5.3	86.7	
	TOT %	4.6	7.7	17.9	32.3	11.5	4.0	5.8	1.1	.0	5.3	90.3	
	TOT OBS												113
	TOT PCT	7.7	8.0	20.1	34.5	11.5	4.0	6.4	2.4	.0	5.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.9	.0	.0	.0	.0	.0	.7	.2	.0		1.8	
	22+	.7	.0	.0	.0	.0	.0	.0	.2	.0		.9	
	TOT %	1.5	.0	.0	.0	.0	.0	.7	.4	.0	.0	2.6	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.9	.0	.0	.0	.0	.0	.0	.9	.0		1.8	
	11-21	.0	.0	2.2	2.2	.0	.0	.0	.0	.0		4.4	
	22+	.7	.2	.0	.0	.0	.0	.0	.0	.0		.9	
	TOT %	1.5	.2	2.2	2.2	.0	.0	.0	.9	.0	.0	7.0	
10+	0-3	.9	1.3	.4	.9	.0	.0	.0	.0	.0	5.3	8.8	
	4-10	2.9	5.0	11.8	16.0	6.6	2.9	4.4	1.3	.0		50.9	
	11-21	.9	1.3	4.6	11.6	4.8	1.1	1.3	.7	.0		26.3	
	22+	.0	.0	.9	3.5	.0	.0	.0	.0	.0		4.4	
	TOT %	4.6	7.7	17.8	32.0	11.4	3.9	5.7	2.0	.0	5.3	90.4	
	TOT OBS												114
	TOT PCT	7.7	7.9	20.0	34.2	11.4	3.9	6.4	3.3	.0	5.3	100.0	

APRIL

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1888-1977

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19.1S 169.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NM >4/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.9	8.8	8.8	5.9	.0	.0	.0	.0	26.5	73.5	34
06&09	.0	.0	.0	17.4	13.0	4.3	.0	.0	.0	.0	34.8	65.2	23
12&15	.0	.0	.0	5.9	5.9	.0	.0	5.9	.0	.0	17.6	82.4	17
18&21	.0	3.3	.0	13.3	13.3	3.3	3.3	3.3	.0	.0	40.0	60.0	30
TOT	0	1	1	12	11	4	1	2	0	0	32	72	104
PCT	.0	1.0	1.0	11.5	10.6	3.8	1.0	1.9	.0	.0	30.8	69.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	5.6	8.3	86.1	36
06&09	.0	.0	.0	4.0	8.0	88.0	25
12&15	.0	.0	.0	.0	4.5	95.5	22
18&21	.0	.0	.0	.0	8.8	91.2	34
TOT	0	0	0	3	9	105	117
PCT	.0	.0	.0	2.6	7.7	89.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NM >4/8),BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00&03	.0	2.9	11.8	14.7	73.5	34
06&09	.0	.0	17.4	17.4	65.2	23
12&15	.0	.0	5.9	11.8	82.4	17
18&21	.0	3.3	16.7	23.3	60.0	30
TOT	0	2	14	18	72	104
PCT	.0	1.9	13.5	17.3	69.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	1.8	.9	.9	.0	4	3.5
80/84	.0	.0	.0	.9	7.1	18.6	30.1	3.5	68	60.2
75/79	.0	.0	.0	.0	6.2	10.6	8.8	10.6	41	36.3
TOTAL	0	0	0	1	17	34	45	16	113	100.0
PCT	.0	.0	.0	.9	15.0	30.1	39.6	14.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.7	1.1	.9	.9	.0	.0	.0	.0	.0	.0
	6.0	6.2	15.5	20.6	5.3	1.3	2.2	1.3	.0	1.8
	2.4	1.3	6.6	13.1	4.9	2.2	2.7	2.2	.0	.9
	9.1	8.6	23.0	34.5	10	3.5	4.9	3.5	.0	2.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	87	86	82	75	75	75	81.4	48
06&09	83	82	82	79	78	77	77	79.8	28
12&15	83	82	82	79	73	73	73	78.9	35
18&21	83	82	82	79	76	75	75	79.5	36
TOT	88	86	84	80	76	73	73	80.0	147

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.9	25.7	37.1	34.3	.0	75	35
06&09	.0	.0	8.7	47.8	26.1	17.4	80	23
12&15	.0	.0	16.7	16.7	37.5	29.2	83	24
18&21	.0	.0	6.1	18.2	57.6	18.2	83	33
TOT	0	1	17	34	46	17	80	115

APRIL

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1888-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OR FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
4	.0	.9	.0	.0	1	.0	.9
3	.0	.0	1.9	.9	3	.0	2.8
2	.0	.0	5.6	.0	6	.0	5.6
1	.0	1.9	7.5	.9	11	.0	10.3
0	.0	.0	6.5	.0	7	.0	6.5
-1		10.3	11.2	.0	23	.0	21.5
-2		6.5	8.4	.0	16	.0	15.0
-3	.0	7.5	3.7	.0	12	.0	11.2
-4	.0	6.5	2.8	.0	10	.0	9.3
-5	.9	2.8	.9	.0	5	.0	4.7
-6	.9	4.7	.0	.0	6	.0	5.6
-7/-8	.0	4.7	.9	.0	6	.0	5.6
-9/-10	.9	.0	.0	.0	1	.0	.9
TOTAL	3		53			0	107
		49		2	107		
PCT	2.8	45.8	49.5	1.9	100.0		100.0

PERIOD: (OVER-ALL) 1969-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	5.2	.0	.0	.0	.0	5.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.6	1.2	.0	.0	2.8
7	.0	.0	.0	1.2	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	1.6	2.4	.0	.0	10.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	6.0	.0	.0	.0	.0	6.0
3-4	1.6	1.6	.0	.0	.0	.0	3.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.6	.4	.0	.0	2.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	9.1	1.6	.4	.0	.0	12.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	11.1	.0	.0	.0	.0	11.1
3-4	.0	3.2	3.2	.0	.0	.0	6.3
5-6	.0	1.6	1.2	.0	.0	.0	2.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.6	.0	.0	.0	1.6
10-11	.0	.0	.0	1.6	.0	.0	1.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.9	6.0	1.6	.0	.0	23.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	.0	.0	.0	.0	.0	1.6
1-2	.0	9.5	.0	.0	.0	.0	9.5
3-4	.0	4.8	1.6	.0	.0	.0	6.3
5-6	.0	.0	3.6	.0	.0	.0	3.6
7	.0	.0	4.8	1.6	.0	.0	6.3
8-9	.0	.0	.0	3.2	.0	.0	3.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	14.3	9.9	4.8	.0	.0	30.6

PERIOD: (OVER-ALL) 1963-1977 APRIL AREA 0015 NIUE ISLAND

TABLE 18 (CONT) 19.1S 169.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	3.2	.0	.0	.0	4.8	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	4.8	.0	.0	.0	6.3	.0	.4	.0	.0	.0	.0	.4

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	2.8	1.2	.0	.0	.0	4.0	.0	1.6	.4	.0	.0	.0	2.0	
3-4	.0	2.4	.0	.0	.0	.0	2.4	.0	.8	.0	.0	.0	.0	.8	
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.4	.4	.0	.0	.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	5.2	2.4	.0	.0	.0	7.5	.0	2.4	.8	.4	.0	.0	3.6	95.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	3.1	.0	.0	.0	.0	10.9	
1-2	.0	37.5	4.7	.0	.0	.0	42.2	
3-4	1.6	12.5	4.7	.0	.0	.0	18.8	
5-6	.0	1.6	9.4	1.6	.0	.0	12.5	
7	.0	.0	6.3	3.1	.0	.0	9.4	
8-9	.0	.0	1.6	3.1	.0	.0	4.7	
10-11	.0	.0	.0	1.6	.0	.0	1.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.4	54.7	26.6	9.4	.0	.0	100.0	64

PERIOD: (OVER-ALL) 1949-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	20.7	9.8	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	3
6-7	.0	.0	5.4	5.4	6.5	4.3	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
8-9	.0	.0	1.1	1.1	2.2	2.2	8.7	3.3	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	9
10-11	.0	.0	.0	2.2	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
12-13	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.3	.0	2.2	3.3	3.3	.0	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
TOTAL	3	19	18	12	11	10	12	5	2	0	0	0	0	0	0	0	0	0	0	92	6
PCT	3.3	20.7	19.6	13.0	12.0	10.9	13.0	5.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1958-1977
(OVER-ALL) 1870-1977

AREA 0015 NIUE ISLAND
19.0S 169.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	2.0	.0	.0	.0	.0	.0	.0	2.0	4.0	.0	.0	.0	4.0	.0	.0	90.0
SE	3.4	.0	.0	.0	.0	.0	.0	3.4	2.8	.0	.0	.0	.0	2.3	.0	91.5
S	.0	.0	.0	.0	.0	.0	.0	.0	5.1	.0	.0	.0	.0	.0	.0	94.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.9	.0	.0	.0	.0	.0	.0	1.9	2.8	.0	.0	.0	.9	.9	93.5	
TOT OBS:	108															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00603	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	2.6	2.6	92.1	
06609	4.3	.0	.0	.0	.0	.0	.0	4.3	8.7	.0	.0	.0	.0	.0	87.0	
12615	3.8	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	96.2	
18621	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
TOT PCT	1.8	.0	.0	.0	.0	.0	.0	1.8	2.7	.0	.0	.0	.9	.9	93.8	
TOT OBS:	113															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	2.8	.6	.0	.0	.0		4.1	7.5	8.5	.0	.0	.0	.0	.0	6.5	.0
NE	1.0	2.4	4.7	.0	.0	.0		8.1	11.6	4.3	.0	8.3	.0	13.6	.0	5.4	66.7
E	.6	6.9	14.0	2.0	.0	.0		23.6	14.3	21.3	20.0	27.1	.0	22.7	50.0	25.0	.0
SE	1.0	2.8	26.8	9.3	.0	.0		40.0	16.6	35.4	40.0	41.7	.0	50.0	25.0	46.7	.0
S	.0	9.1	3.5	.0	.0	.0		12.6	9.4	14.6	20.0	13.5	.0	3.4	25.0	15.2	.0
SW	.0	2.2	3.5	.0	.0	.0		5.7	12.7	5.5	20.0	9.4	25.0	1.1	.0	.0	33.3
W	.0	.0	.6	.0	.0	.0		.6	12.0	.0	.0	.0	75.0	.0	.0	.0	.0
NW	.0	1.2	.8	.0	.0	.0		2.0	11.4	3.0	.0	.0	.0	4.5	.0	1.1	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	7.3	.0	.0	.0	4.5	.0	.0	.0
TOT OBS	8	34	67	14	0	0	123		13.5	41	5	24	1	22	4	23	3
TOT PCT	6.5	27.6	54.5	11.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.0	2.0	.0	.0	.0		4.1	7.5	7.6	.0	.0	5.8
NE	1.0	5.5	1.6	.0	.0		8.1	11.6	3.8	8.0	11.5	12.5
E	4.5	10.4	7.5	1.2	.0		23.6	14.3	21.2	26.0	26.9	22.1
SE	1.4	21.1	15.4	2.0	.0		40.0	16.6	35.9	40.0	46.2	41.3
S	4.5	6.7	1.4	.0	.0		12.6	9.4	15.2	13.0	6.7	13.5
SW	1.0	3.0	1.6	.0	.0		5.7	12.7	7.1	10.0	1.0	3.8
W	.0	.6	.0	.0	.0		.6	12.0	.0	3.0	.0	.0
NW	.2	1.0	.8	.0	.0		2.0	11.4	2.7	.0	3.8	1.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	6.5	.0	3.8	.0
TOT OBS	22	62	35	4	0	123		13.5	46	25	26	26
TOT PCT	17.9	50.4	28.5	3.3	.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1958-1977
(OVER-ALL) 1870-1977

AREA 0015 NIUE ISLAND
19.0S 169.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.5	4.3	28.3	50.0	10.9	.0	.0	13.2	100.0	46
06&09	.0	4.0	24.0	60.0	12.0	.0	.0	13.6	100.0	25
12&15	3.8	3.8	30.8	53.8	7.7	.0	.0	11.7	100.0	26
18&21	.0	.0	26.9	57.7	15.4	.0	.0	13.6	100.0	26
TOT	4	4	34	67	14	0	0	13.5		123
PCT	3.3	3.3	27.6	54.5	11.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	2.7	.0	.8		4.1
NE	2.7	2.4	1.1	2.2		4.3
E	4.6	5.4	7.6	6.5		5.3
SE	3.0	10.1	17.1	7.9		5.4
S	2.4	3.0	7.6	.8		4.8
SW	3.5	2.4	.3	.0		2.2
W	.0	.8	.0	.0		3.0
NW	.0	.3	2.2	.3		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	1.1	.0		2.5
TOT OBS	16	25	34	17	92	4.9
TOT PCT	17.4	27.2	37.0	18.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	
.0	.0	.0	.0	2.2	.0	.0	.0	1.1	.0	5.2	
.0	.0	.0	2.4	5.7	1.1	.0	.0	.0	.0	14.9	
.0	.0	.0	3.0	4.3	5.7	1.1	.0	.0	1.1	22.8	
.0	.0	.0	.8	3.0	.8	.0	.0	.0	.0	9.2	
.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	6.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
0	0	0	6	15	7	1	0	1	1	61	92
.0	.0	.0	6.5	16.3	7.6	1.1	.0	1.1	1.1	66.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR >5000	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR >3500	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	8.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3
* OR >1000	23.7	26.8	26.8	26.8	26.8	26.8	26.8	26.8
* OR >600	27.8	33.0	33.0	33.0	33.0	33.0	33.0	33.0
* OR >300	27.8	33.0	33.0	33.0	33.0	33.0	33.0	33.0
* OR >150	27.8	33.0	33.0	33.0	33.0	33.0	33.0	33.0
* OR > 0	27.8	33.0	33.0	33.0	33.0	33.0	33.0	33.0
TOTAL	27	32	32	32	32	32	32	32

TOTAL NUMBER OF OBS: 97

PCT FREQ NH <5/8: 67.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.0	8.0	24.0	16.0	13.0	9.0	9.0	6.0	9.0 .0	100

MAY

PERIOD: (PRIMARY) 1958-1977
(OVER-ALL) 1870-1977

AREA 0015 NIUE ISLAND
19.0S 169.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	1.9	
	TOT %	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	1.9	
5<10	PCP	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	.0	.9	6.3	4.4	2.3	.0	.0	.0	.0	.0	13.9	
	TOT %	.0	.9	6.7	4.9	2.3	.0	.0	.0	.0	.0	14.8	
10+	PCP	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	3.0	8.1	15.5	34.3	11.3	5.3	.7	2.3	.0	1.9	82.4	
	TOT %	3.0	8.1	15.5	35.2	11.3	5.3	.7	2.3	.0	1.9	83.3	
	TOT OBS												108
	TOT PCT	3.0	9.0	23.1	41.0	13.7	5.3	.7	2.3	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.9	.9	.0	.0	.0	.0	.0		1.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	1.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	2.8	.2	1.6	.0	.0	.0	.0		4.6	
	11-21	.0	.9	3.9	3.7	.7	.0	.0	.0	.0		9.3	
	22+	.0	.0	.0	.9	.0	.0	.0	.0	.0		.9	
	TOT %	.0	.9	6.7	4.9	2.3	.0	.0	.0	.0	.0	14.8	
10+	0-3	.0	.9	.0	.9	.0	.0	.0	.0	.0	1.9	3.7	
	4-10	2.3	2.8	3.5	1.9	8.1	2.3	.0	1.4	.0		22.2	
	11-21	.7	4.4	9.7	24.5	3.2	3.0	.7	.9	.0		47.2	
	22+	.0	.0	2.3	7.9	.0	.0	.0	.0	.0		10.2	
	TOT %	3.0	8.1	15.5	35.2	11.3	5.3	.7	2.3	.0	1.9	83.3	
	TOT OBS												108
	TOT PCT	3.0	9.0	23.1	41.0	13.7	5.3	.7	2.3	.0	1.9	100.0	

MAY

PERIOD: (PRIMARY) 1958-1977
(OVER-ALL) 1870-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	.0	17.1	2.9	2.9	.0	.0	2.9	25.7	74.3	35
06&09	.0	.0	.0	10.0	10.0	15.0	.0	.0	.0	.0	35.0	65.0	20
12&15	.0	.0	.0	5.0	20.0	10.0	.0	.0	5.0	.0	40.0	60.0	20
18&21	.0	.0	.0	12.5	16.7	4.2	.0	.0	.0	.0	33.3	66.7	24
TOT	0	0	0	6	16	7	1	0	1	1	32	67	99
PCT	.0	.0	.0	6.1	16.2	7.1	1.0	.0	1.0	1.0	32.3	67.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	10.5	89.5	38
06&09	.0	.0	.0	.0	17.4	82.6	23
12&15	.0	.0	.0	3.8	19.2	76.9	26
18&21	.0	.0	.0	3.8	11.5	84.6	26
TOT	0	0	0	2	16	95	113
PCT	.0	.0	.0	1.8	14.2	84.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50VSBY	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	.0	25.7	74.3	35
06&09	.0	.0	10.5	26.3	63.2	19
12&15	.0	.0	10.5	36.8	52.6	19
18&21	.0	.0	16.7	20.8	62.5	24
TOT	0	0	8	26	63	97
PCT	.0	.0	8.2	26.8	64.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	1.0	.0	.0	1.0	.0	2	2.0
80/84	.0	.0	.0	.0	6.1	12.2	8.2	.0	26	26.5
75/79	.0	.0	.0	.0	12.2	27.6	19.4	11.2	69	70.4
70/74	.0	.0	.0	.0	.0	1.0	.0	.0	1	1.0
TOTAL	0	0	0	1	18	40	28	11	98	100.0
PCT	.0	.0	.0	1.0	18.4	40.8	28.6	11.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.5	.5	.3	.8	.0	.0	.0	.0	.0
2.6	5.1	5.1	5.4	2.8	2.0	.0	2.6	.0	1.0
.8	3.3	19.4	32.9	9.4	3.8	.8	.0	.0	.0
.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0
3.3	8.9	25.0	39.5	13.0	5.9	.8	2.6	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	88	87	80	77	74	74	80.7	47
06&09	84	83	81	78	76	76	76	78.4	25
12&15	82	81	81	77	73	72	72	77.3	28
18&21	81	80	80	77	75	75	75	77.6	25
TOT	89	88	84	79	75	73	72	78.9	125

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.0	24.2	48.5	18.2	6.1	75	33
06&09	.0	.0	16.7	41.7	33.3	8.3	77	24
12&15	.0	.0	8.7	30.4	34.8	26.1	82	23
18&21	.0	.0	17.4	34.8	34.8	13.0	79	23
TOT	0	1	18	41	30	13	78	103

MAY

PERIOD: (PRIMARY) 1958-1977
(OVER-ALL) 1870-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
6	.0	2.1	.0	.0	2	.0	2.1
5	.0	1.0	.0	.0	1	.0	1.0
4	.0	1.0	.0	1.0	2	.0	2.1
3	.0	1.0	2.1	.0	3	.0	3.1
2	.0	.0	3.1	.0	3	.0	3.1
1	.0	3.1	1.0	.0	4	.0	4.2
0	1.0	1.0	6.3	.0	8	.0	8.3
-1	3.1	9.4	2.1	.0	14	.0	14.6
-2	1.0	13.5	2.1	.0	16	.0	16.7
-3	2.1	9.4	1.0	.0	12	.0	12.5
-4	3.1	6.3	.0	.0	9	.0	9.4
-5	5.2	7.3	.0	.0	12	.0	12.5
-6	4.2	1.0	1.0	.0	6	.0	6.3
-7/-8	.0	4.2	.0	.0	4	.0	4.2
TOTAL	19	58	18	1	96	0	96
PCT	19.8	60.4	18.8	1.0	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	1.4	.0	.0	.0	.0	1.4
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	1.0	.0	.0	.0	4.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	1.4	2.8	.0	.0	.0	5.6
3-4	.0	1.4	.0	.0	.0	.0	1.4
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	2.8	4.5	.0	.0	.0	8.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.2	.0	.0	.0	.0	4.2
1-2	.0	.0	2.8	.0	.0	.0	2.8
3-4	.0	1.4	2.8	.0	.0	.0	4.2
5-6	.0	.0	8.3	.0	.0	.0	8.3
7	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.6	15.3	.0	.0	.0	20.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	.7	3.1	.0	.0	.0	5.2
3-4	.0	.0	12.8	.0	.0	.0	12.8
5-6	.0	.0	11.1	.0	.0	.0	11.1
7	.0	.0	1.4	1.4	.0	.0	2.8
8-9	.0	.0	1.4	1.4	.0	.0	2.8
10-11	.0	.0	1.4	2.8	.0	.0	4.2
12	.0	.0	.0	1.4	.0	.0	1.4
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	.7	31.3	6.9	.0	.0	40.3

MAY

PERIOD: (OVER-ALL) 1963-1977 AREA 0015 NIUE ISLAND

TABLE 18 (CONT) 19.0S 169.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.6	1.0	.0	.0	.0	8.7
3-4	.0	1.0	2.4	.0	.0	.0	3.5
5-6	.0	.3	1.4	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.7	4.9	.0	.0	.0	13.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.7	4.5	.0	.0	.0	6.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	4.5	.0	.0	.0	6.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.0	.0	.0	.0	1.0	
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.0	.0	.0	.0	1.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	1.7	.0	.0	.0	.0	1.7	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.1	1.4	.0	.0	.0	3.5	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	5.4	.0	.0	.0	.0	6.8	
1-2	4.1	13.5	9.5	.0	.0	.0	27.0	
3-4	.0	6.8	23.0	.0	.0	.0	29.7	
5-6	.0	.0	23.0	.0	.0	.0	23.0	
7	.0	.0	4.1	1.4	.0	.0	5.4	
8-9	.0	.0	1.4	1.4	.0	.0	2.7	
10-11	.0	.0	1.4	2.7	.0	.0	4.1	
12	.0	.0	.0	1.4	.0	.0	1.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.4	25.7	62.2	6.8	.0	.0	100.0	74

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	2.2	7.9	3.4	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
6-7	.0	.0	6.7	10.1	2.2	2.2	2.2	4.5	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
8-9	.0	.0	1.1	2.2	4.5	4.5	5.6	4.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	9
10-11	.0	.0	2.2	1.1	2.2	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	3	21
>13	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	.0	.0	1.1	1.1	4.5	2.2	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	8
TOTAL	1	2	17	16	16	8	9	8	9	2	0	0	0	1	0	0	0	0	0	89	8
PCT	1.1	2.2	19.1	18.0	18.0	9.0	10.1	9.0	10.1	2.2	.0	.0	.0	1.1	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1951-1970
(OVER-ALL) 1870-1970

AREA 0015 WAKE ISLAND
19.0S 166.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SE	3.7	.0	.0	.0	.0	.0	.0	3.7	5.6	1.8	.0	.0	.0		.0	90.4
S	.0	.0	.0	.0	.0	.0	.0	.0	18.0	.0	.0	.0	.0		.0	82.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	80.0	.0	.0	.0		.0	20.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
TOT PCT	1.8	.0	.0	.0	.0	.0	.0	1.8	5.3	1.8	.0	.0	.0		.0	92.1
TOT OBS:	114															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0		.0	97.0
06&09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
12&15	3.3	.0	.0	.0	.0	.0	.0	3.3	.0	6.7	.0	.0	.0		.0	93.3
18&21	3.3	.0	.0	.0	.0	.0	.0	3.3	16.7	.0	.0	.0	.0		.0	80.0
TOT PCT	1.7	.0	.0	.0	.0	.0	.0	1.7	5.2	1.7	.0	.0	.0		.0	92.2
TOT OBS:	116															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	1.1	.0	.0	.0	.0		1.7	4.0	3.7	.0	.0	.0	2.9	.0	.0	.0
NE	.2	2.4	3.4	.8	.0	.0		6.8	13.2	6.1	.0	18.2	.0	2.9	10.7	3.2	.0
E	1.5	4.5	15.6	3.6	.0	.0		25.2	14.3	17.7	30.0	13.6	75.0	39.4	46.4	24.2	.0
SE	1.5	10.2	24.1	8.5	.0	.0		44.2	15.5	51.2	10.0	59.1	25.0	28.8	35.7	45.2	.0
S	1.5	4.9	6.6	.8	.0	.0		13.7	12.2	9.1	40.0	9.1	.0	21.2	7.1	14.5	.0
SW	.0	3.0	1.7	.0	.0	.0		4.7	9.8	7.3	20.0	.0	.0	.0	.0	7.3	.0
W	.8	.0	.6	.0	.0	.0		1.3	8.8	2.4	.0	.0	.0	.0	.0	2.4	.0
NW	.8	.2	.8	.0	.0	.0		1.7	7.2	2.4	.0	.0	.0	4.8	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	.0	.0	.0	.0	.0	.0	3.2	.0
TOT OBS	10	35	70	18		0	133		13.8	41	5	22	1	26	7	31	0
TOT PCT	7.5	26.3	52.6	13.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	.0	.0	.0	.0		1.7	4.0	3.3	.0	2.3	.0
NE	1.9	3.0	1.1	.8	.0		6.8	13.2	5.4	17.4	4.5	3.2
E	1.5	15.2	8.5	.0	.0		25.2	14.3	19.0	16.3	40.9	24.2
SE	4.3	19.5	17.3	3.0	.0		44.2	15.5	46.7	57.6	30.3	45.2
S	3.2	7.3	2.4	.8	.0		13.7	12.2	12.5	8.7	18.2	14.5
SW	.8	3.8	.2	.0	.0		4.7	9.8	8.7	.0	.0	7.3
W	.8	.0	.6	.0	.0		1.3	8.8	2.2	.0	.0	2.4
NW	.9	.8	.0	.0	.0		1.7	7.2	2.2	.0	3.8	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.0	.0	.0	3.2
TOT OBS	21	66	40	6	0	133		13.8	46	23	33	31
TOT PCT	15.8	49.6	30.1	4.5	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1951-1976
(OVER-ALL) 1870-1976

AREA 0015 NIUE ISLAND
19.0S 169.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	15.2	19.6	50.0	15.2	.0	.0	14.0	100.0	46
06&09	.0	.0	21.7	60.9	17.4	.0	.0	14.7	100.0	23
12&15	.0	6.1	39.4	51.5	3.0	.0	.0	12.0	100.0	33
18&21	3.2	.0	25.8	51.6	19.4	.0	.0	14.7	100.0	31
TOT	1	9	35	70	18	0	0	13.8		133
PCT	.8	6.8	26.3	52.6	13.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	1.7	.0	.0		3.0
NE	2.8	1.4	.3	1.1		3.4
E	8.4	8.7	7.0	3.4		4.3
SE	3.1	16.3	21.6	8.1		5.1
S	1.7	3.1	2.5	4.2		5.3
SW	2.2	.0	.0	.0		1.0
W	.0	.0	.0	.0		.0
NW	1.1	.3	.0	.0		1.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	18	28	28	15	89	4.6
TOT PCT	20.2	31.5	31.5	16.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	
NE	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	4.5	
E	.0	.0	1.1	.0	3.1	2.0	1.1	1.1	.0	.0	19.1	
SE	.0	.0	1.4	7.9	8.7	4.8	.3	1.1	.0	.0	25.0	
S	.0	.0	.8	1.1	3.9	.0	.8	.0	.0	.0	4.8	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	3	9	14	6	2	2	0	0	53	89
TOT PCT	.0	.0	3.4	10.1	15.7	6.7	2.2	2.2	.0	.0	59.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
* OR >3500	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
* OR >2000	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
* OR >1000	25.3	27.5	27.5	27.5	27.5	27.5	27.5	27.5
* OR >600	33.0	37.4	37.4	37.4	37.4	37.4	37.4	37.4
* OR >300	34.1	40.7	40.7	40.7	40.7	40.7	40.7	40.7
* OR >150	34.1	40.7	40.7	40.7	40.7	40.7	40.7	40.7
* OR > 0	34.1	40.7	40.7	40.7	40.7	40.7	40.7	40.7
TOTAL	31	37	37	37	37	37	37	37

TOTAL NUMBER OF OBS: 91 PCT FREQ NH <5/8: 59.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.1	12.2	12.2	20.4	9.2	8.2	11.2	9.2	12.2 .0	98

JUNE

PERIOD: (PRIMARY) 1951-1976
(OVER-ALL) 1870-1976

AREA 0015 NIUE ISLAND
19.0S 169.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	1.8	
	NO PCP	.0	.0	2.9	4.8	2.9	.9	.0	.0	.0	.0	11.4	
	TOT %	.0	.0	2.9	6.6	2.9	.9	.0	.0	.0	.0	13.2	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	2.0	5.9	22.6	41.2	10.5	3.5	.0	1.1	.0	.0	86.8	
	TOT %	2.0	5.9	22.6	41.2	10.5	3.5	.0	1.1	.0	.0	86.8	
	TOT OBS												114
	TOT PCT	2.0	5.9	25.4	47.8	13.4	4.4	.0	1.1	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.9	1.5	2.0	.0	.0	.0	.0		4.4	
	11-21	.0	.0	1.3	3.9	.0	.9	.0	.0	.0		6.1	
	22+	.0	.0	.7	1.1	.9	.0	.0	.0	.0		2.6	
	TOT %	.0	.0	2.9	6.6	2.9	.9	.0	.0	.0	.0	13.2	
10+	0-3	.7	.2	1.8	.9	.9	.0	.0	.0	.0	.0	4.4	
	4-10	1.3	2.9	4.4	9.4	2.9	2.6	.0	.2	.0		23.7	
	11-21	.0	2.9	14.7	22.1	6.8	.9	.0	.9	.0		48.2	
	22+	.0	.0	1.8	8.8	.0	.0	.0	.0	.0		10.5	
	TOT %	2.0	5.9	22.6	41.2	10.5	3.5	.0	1.1	.0	.0	86.8	
	TOT OBS												114
	TOT PCT	2.0	5.9	25.4	47.8	13.4	4.4	.0	1.1	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1951-1970
(OVER-ALL) 1870-1970

AREA 0015 NIUE ISLAND
19.05 169.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	7.4	18.5	7.4	.0	3.7	.0	.0	37.0	63.0	27
06&09	.0	.0	.0	15.8	10.5	10.5	.0	.0	.0	.0	36.8	63.2	19
12&15	.0	.0	.0	.0	13.6	4.5	4.5	4.5	.0	.0	27.3	72.7	22
18&21	.0	.0	11.1	14.8	14.8	7.4	3.7	.0	.0	.0	51.9	48.1	27
TOT	0	0	3	9	14	7	2	2	0	0	37	58	95
PCT	.0	.0	3.2	9.5	14.7	7.4	2.1	2.1	.0	.0	38.9	61.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	9.1	90.9	33
06&09	.0	.0	.0	.0	17.4	82.6	23
12&15	.0	.0	.0	.0	13.3	86.7	30
18&21	.0	.0	.0	.0	13.3	86.7	30
TOT	0	0	0	0	15	101	116
PCT	.0	.0	.0	.0	12.9	87.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <3/8 AND 5+	TOTAL OBS
00&03	.0	.0	7.4	29.6	63.0	27
06&09	.0	.0	15.8	21.1	63.2	19
12&15	.0	.0	.0	30.0	70.0	20
18&21	.0	12.0	28.0	28.0	44.0	25
TOT	0	3	12	25	54	91
PCT	.0	3.3	13.2	27.5	59.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	1.0	.0	.0	.0	.0	1	1.0
80/84	.0	.0	.0	.0	1.0	4.8	6.7	.0	13	12.5
75/79	.0	.0	.0	2.9	12.5	20.2	26.9	4.8	70	67.3
70/74	.0	.0	.0	1.0	6.7	5.8	3.8	1.9	20	19.2
TOTAL	0	0	0	5	21	32	39	7	104	100.0
PCT	.0	.0	.0	4.8	20.2	30.8	37.5	6.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0
	1.4	1.4	6.5	1.2	1.0	.0	.0	1.0	.0	.0
	.7	5.3	18.8	28.8	7.7	4.8	.0	.2	.0	1.0
	.0	.0	1.0	13.2	4.1	.2	.7	.0	.0	.0
	2.2	6.7	26.2	44.2	12.7	5.0	.7	1.2	.0	1.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	93	92	82	78	73	72	72	78.1	47
06&09	79	78	78	77	74	73	73	76.7	23
12&15	81	80	80	77	73	73	73	77.0	34
18&21	81	80	79	76	72	72	72	75.7	32
TOT	93	83	81	77	73	72	72	77.0	136

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	14.3	17.9	50.0	14.3	3.6	72	28
06&09	.0	.0	21.7	26.1	47.8	4.3	78	23
12&15	.0	.0	17.9	17.9	57.1	7.1	80	28
18&21	.0	3.7	25.9	25.9	29.6	14.8	78	27
TOT	0	5	22	32	39	8	77	106

JUNE

PERIOD: (PRIMARY) 1951-1976
(OVER-ALL) 1870-1976

AREA 0015 NIUE ISLAND
19.0S 169.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	1.1	1	.0	1.1
7/8	.0	.0	.0	1.1	.0	.0	.0	1	.0	1.1
4	.0	.0	1.1	.0	.0	.0	.0	1	.0	1.1
3	.0	.0	.0	1.1	.0	.0	.0	1	.0	1.1
1	.0	1.1	2.1	1.1	.0	.0	.0	4	.0	4.2
0	.0	4.2	3.2	.0	.0	.0	.0	7	.0	7.4
-1	.0	3.2	18.9	1.1	.0	.0	.0	22	.0	23.2
-2	.0	3.2	14.7	.0	.0	.0	.0	17	.0	17.9
-3	.0	5.3	7.4	.0	.0	.0	.0	12	.0	12.6
-4	.0	14.7	3.2	1.1	.0	.0	.0	18	.0	18.9
-5	1.1	5.3	.0	.0	.0	.0	.0	6	.0	6.3
-6	1.1	2.1	.0	.0	.0	.0	.0	3	.0	3.2
-7/-8	.0	2.1	.0	.0	.0	.0	.0	2	.0	2.1
TOTAL	2	39	48	5	0	0	1	95	0	95
PCT	2.1	41.1	50.5	5.3	.0	.0	1.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.0	.0	.0	.0	.0	1.2
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	1.2	.0	.0	.0	.0	2.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4
1-2	.0	5.2	.0	.0	.0	.0	5.2
3-4	.0	.0	2.0	.0	.0	.0	2.0
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.2	2.4	.0	.0	.0	7.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	1.6	.0	.0	.0	.0	.0	1.6
3-4	.0	.0	8.3	.0	.0	.0	8.3
5-6	.0	3.2	6.0	.0	.0	.0	9.1
7	.0	.0	.0	1.2	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	3.2	.0	.0	3.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	4.8	14.3	4.4	.0	.0	25.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.3	.0	.0	.0	.0	6.3
3-4	.0	3.6	4.4	.0	.0	.0	7.9
5-6	.0	.4	6.3	.0	.0	.0	6.7
7	.0	1.6	6.3	5.2	.0	.0	13.1
8-9	.0	.0	3.2	3.2	.0	.0	6.3
10-11	.0	.0	1.6	1.6	.0	.0	3.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	3.2	.0	.0	3.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.9	21.8	13.1	.0	.0	46.8

PERIOD: (OVER-ALL) 1963-1976 JUNE AREA 0015 NIUE ISLAND 19.0S 169.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	.0	.0	.0	.0	.0	1.6
1-2	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	1.2	4.4	.0	.0	.0	5.6
5-6	.0	1.2	.0	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	5.6	4.4	.0	.0	.0	11.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.8	.0	.0	.0	.0	4.8
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	1.6	.0	.0	.0	6.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	1.6	.0	.0	.0	.0	4.8	
1-2	1.6	20.6	.0	.0	.0	.0	22.2	
3-4	.0	4.8	20.6	.0	.0	.0	25.4	
5-6	.0	4.8	12.7	.0	.0	.0	17.5	
7	.0	1.6	6.3	6.3	.0	.0	14.3	
8-9	.0	.0	3.2	3.2	.0	.0	6.3	
10-11	.0	.0	1.6	1.6	.0	.0	3.2	
12	.0	.0	.0	3.2	.0	.0	3.2	
13-16	.0	.0	.0	3.2	.0	.0	3.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	33.3	44.4	17.5	.0	.0	100.0	63

PERIOD: (OVER-ALL) 1953-1976 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	.0	6.0	3.6	3.6	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
6-7	.0	1.2	3.6	6.0	13.3	2.4	4.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
8-9	.0	.0	.0	6.0	7.2	1.2	3.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
10-11	.0	.0	.0	1.6	1.2	1.2	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
12-13	.0	.0	.0	3.6	1.2	.0	2.4	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
>13	.0	.0	.0	.0	.0	.0	1.2	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	11
INDET	.0	.0	2.4	1.2	3.6	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
TOTAL	2	1	10	18	25	5	12	3	7	0	0	0	0	0	0	0	0	0	0	83	7
PCT	2.4	1.2	12.0	21.7	30.1	6.0	14.5	3.6	8.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1951-1970
(OVER-ALL) 1870-1970

AREA 0015 NIUE ISLAND
19.0S 169.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	1.1	1	.0	1.1
7/8	.0	.0	.0	1.1	.0	.0	.0	1	.0	1.1
4	.0	.0	1.1	.0	.0	.0	.0	1	.0	1.1
3	.0	.0	.0	1.1	.0	.0	.0	1	.0	1.1
1	.0	1.1	2.1	1.1	.0	.0	.0	4	.0	4.2
0	.0	4.2	3.2	.0	.0	.0	.0	7	.0	7.4
-1	.0	3.2	18.9	1.1	.0	.0	.0	22	.0	23.2
-2	.0	3.2	14.7	.0	.0	.0	.0	17	.0	17.9
-3	.0	5.3	7.4	.0	.0	.0	.0	12	.0	12.6
-4	.0	14.7	3.2	1.1	.0	.0	.0	18	.0	18.9
-5	1.1	5.3	.0	.0	.0	.0	.0	6	.0	6.3
-6	1.1	2.1	.0	.0	.0	.0	.0	3	.0	3.2
-7/-8	.0	2.1	.0	.0	.0	.0	.0	2	.0	2.1
TOTAL	2		48		0		1		0	95
		39		5		0		95		
PCT	2.1	41.1	50.5	5.3	.0	.0	1.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.0	.0	.0	.0	.0	1.2
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	1.2	.0	.0	.0	.0	2.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4
1-2	.0	5.2	.0	.0	.0	.0	5.2
3-4	.0	.0	2.0	.0	.0	.0	2.0
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.2	2.4	.0	.0	.0	7.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	1.6	.0	.0	.0	.0	.0	1.6
3-4	.0	.0	8.3	.0	.0	.0	8.3
5-6	.0	3.2	6.0	.0	.0	.0	9.1
7	.0	.0	.0	1.2	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	3.2	.0	.0	3.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	4.8	14.3	4.4	.0	.0	25.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.3	.0	.0	.0	.0	6.3
3-4	.0	3.6	4.4	.0	.0	.0	7.9
5-6	.0	.4	6.3	.0	.0	.0	6.7
7	.0	1.6	6.3	5.2	.0	.0	13.1
8-9	.0	.0	3.2	3.2	.0	.0	6.3
10-11	.0	.0	1.6	1.6	.0	.0	3.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	3.2	.0	.0	3.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.9	21.8	13.1	.0	.0	46.8

PERIOD: (OVER-ALL) 1968-1976 JUNE AREA 0015 NIUE ISLAND

TABLE 18 (CONT) 19.05 169.7W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	.0	.0	.0	.0	.0	1.6
1-2	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	1.2	4.4	.0	.0	.0	5.6
5-6	.0	1.2	.0	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	5.6	4.4	.0	.0	.0	11.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.8	.0	.0	.0	.0	4.8
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	1.6	.0	.0	.0	6.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	1.6	.0	.0	.0	.0	4.8	
1-2	1.6	20.6	.0	.0	.0	.0	22.2	
3-4	.0	4.8	20.6	.0	.0	.0	25.4	
5-6	.0	4.8	12.7	.0	.0	.0	17.5	
7	.0	1.6	6.3	6.3	.0	.0	14.3	
8-9	.0	.0	3.2	3.2	.0	.0	6.3	
10-11	.0	.0	1.6	1.6	.0	.0	3.2	
12	.0	.0	.0	3.2	.0	.0	3.2	
13-16	.0	.0	.0	3.2	.0	.0	3.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	33.3	44.4	17.5	.0	.0	100.0	63

PERIOD: (OVER-ALL) 1953-1976 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	.0	6.0	3.6	3.6	.0	.0	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
6-7	.0	1.2	3.6	6.0	13.3	2.4	4.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
8-9	.0	.0	.0	6.0	7.2	1.2	3.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
10-11	.0	.0	.0	1.2	1.2	1.2	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
12-13	.0	.0	.0	3.6	1.2	.0	2.4	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
>13	.0	.0	.0	.0	.0	.0	1.2	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	11
INDET	.0	.0	2.4	1.2	3.6	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
TOTAL	2	1	10	18	25	5	12	3	7	0	0	0	0	0	0	0	0	0	0	83	7
PCT	2.4	1.2	12.0	21.7	30.1	6.0	14.5	3.6	8.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1879-1977

AREA 0015 NIUE ISLAND
19.05 169.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	16.7	12.5	.0	.0	.0	.0	.0	29.2	.0	.0	.0	.0	.0	.0	.0	70.8
NE	.0	3.1	.0	.0	.0	.0	.0	3.1	3.1	.0	.0	.0	.0	.0	.0	93.8
E	.0	2.6	.0	.0	.0	.0	.0	2.6	4.6	.0	.0	.0	.0	.0	.0	92.7
SE	.0	.7	2.7	.0	.0	.0	.0	3.4	.7	.0	.0	.0	.0	.0	.0	95.9
S	.0	4.2	5.6	.0	.0	.0	.0	9.7	4.2	.0	.0	.0	.0	.0	.0	86.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	60.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.9	2.6	1.7	.0	.0	.0	.0	5.2	2.6	.9	.0	.0	.0	.0	.0	91.4
TOT OBS:	116															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	2.6	.0	.0	.0	.0	2.6	2.6	.0	.0	.0	.0	.0	.0	94.9
06&09	.0	5.6	.0	.0	.0	.0	.0	5.6	.0	5.6	.0	.0	.0	.0	.0	88.9
12&15	.0	3.3	3.3	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	93.3
18&21	3.0	3.0	.0	.0	.0	.0	.0	6.1	6.1	.0	.0	.0	.0	.0	.0	87.9
TOT PCT	.8	2.5	1.7	.0	.0	.0	.0	5.0	2.5	.8	.0	.0	.0	.0	.0	91.7
TOT OBS:	120															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	4.4	.5	.0	.0	.0		4.9	6.3	3.3	33.3	3.4	.0	3.4	.0	5.0	.0
NE	.0	4.6	1.9	.0	.0	.0		6.5	10.0	7.8	.0	2.3	.0	7.8	.0	8.6	.0
E	1.4	6.3	24.6	.5	.7	.0		33.6	13.4	36.1	41.7	27.3	100.0	22.4	87.5	34.3	.0
SE	.0	10.6	17.8	4.0	.0	.0		32.4	14.8	31.1	25.0	31.1	.0	40.5	12.5	20.0	.0
S	1.6	4.9	7.4	1.8	.0	.0		15.7	11.7	15.0	.0	6.8	.0	16.4	.0	26.4	.0
SW	1.2	.2	.4	1.4	.0	.0		3.2	12.6	3.9	.0	.0	.0	6.0	.0	2.9	.0
W	.0	.5	.0	.0	.0	.0		.5	10.0	1.7	.0	.0	.0	.0	.0	.0	.0
NW	.0	.9	.9	.0	.0	.0		1.8	11.6	1.1	.0	9.1	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	.0	.0	.0	.0	3.4	.0	2.9	.0
TOT OBS	8	46	76	11	1	0	142		12.7	45	6	22	1	29	4	35	0
TOT PCT	5.6	32.4	53.5	7.7	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.4	.5	.0	.0	.0		4.9	6.3	6.9	3.3	3.0	5.0
NE	1.9	3.2	1.4	.0	.0		6.5	10.0	6.9	2.2	6.8	8.6
E	4.0	22.2	6.7	.7	.0		33.6	13.4	36.8	30.4	30.3	34.3
SE	2.1	16.9	12.0	1.4	.0		32.4	14.8	30.4	48.9	37.1	20.0
S	3.9	9.3	2.5	.0	.0		15.7	11.7	13.2	6.5	14.4	26.4
SW	1.2	.5	1.4	.0	.0		3.2	12.6	3.4	.0	5.3	2.9
W	.0	.5	.0	.0	.0		.5	10.0	1.5	.0	.0	.0
NW	.0	1.8	.0	.0	.0		1.8	11.6	1.0	8.7	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	.0	.0	3.0	2.9
TOT OBS	27	78	34	3	0	142		12.7	51	23	33	35
TOT PCT	19.0	54.9	23.9	2.1	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1879-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	2.0	33.3	56.9	5.9	2.0	.0	13.8	100.0	51
06&09	.0	.0	39.1	52.2	8.7	.0	.0	13.3	100.0	23
12&15	3.0	6.1	27.3	51.5	12.1	.0	.0	12.5	100.0	33
18&21	2.9	8.6	31.4	51.4	5.7	.0	.0	11.0	100.0	35
TOT	2	6	46	76	11	1	0	12.7		142
PCT	1.4	4.2	32.4	53.5	7.7	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.7	.0	1.7		4.8
NE	4.6	1.0	1.0	.2		2.5
E	7.9	6.5	14.2	1.9		4.6
SE	2.6	7.2	16.6	7.2		5.7
S	4.3	1.7	6.7	3.6		5.1
SW	.2	1.9	.0	1.7		5.3
W	.7	.0	.0	.0		2.0
NW	1.2	.2	.0	1.0		4.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.9	.0		5.5
TOT OBS	24	20	42	18	104	4.9
TOT PCT	23.1	19.2	40.4	17.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	3.1	
.0	.0	.0	.2	.7	.0	.0	.0	.0	.0	5.8	
.0	.0	.0	4.3	5.5	1.9	.0	1.0	.0	1.0	16.8	
.0	.0	1.9	4.6	7.7	5.3	.2	.0	.0	1.0	13.0	
.0	.0	.0	.7	6.5	1.4	.7	.0	.0	.0	7.0	
.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	3.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0	
0	0	3	12	22	9	1	1	0	2	54	104
.0	.0	2.9	11.5	21.2	8.7	1.0	1.0	.0	1.9	51.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >5000	1.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8
* OR >3500	2.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
* OR >2000	11.1	12.0	12.0	12.0	12.0	12.0	12.0	12.0
* OR >1000	29.6	33.3	34.3	34.3	34.3	34.3	34.3	34.3
* OR >400	38.0	44.4	45.4	45.4	45.4	45.4	45.4	45.4
* OR >300	39.8	47.2	48.1	48.1	48.1	48.1	48.1	48.1
* OR >150	39.8	47.2	48.1	48.1	48.1	48.1	48.1	48.1
* OR > 0	39.8	47.2	48.1	48.1	48.1	48.1	48.1	48.1
TOTAL	43	51	52	52	52	52	52	52

TOTAL NUMBER OF OBS: 108 PCT FREQ NH <5/8: 51.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.5	10.9	18.2	10.0	8.2	12.7	11.8	13.6	9.1 .0	110

PERIOD: (PRIMARY) 1950-1977
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.9	
5<10	PCP	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	1.7	
	NO PCP	.0	.2	4.1	2.8	.6	.0	.0	.9	.0	.0	8.6	
	TOT %	.0	.2	4.1	3.7	1.5	.0	.0	.9	.0	.0	10.3	
10+	PCP	1.5	.2	.0	.2	.6	.0	.0	.0	.0	.0	2.6	
	NO PCP	3.7	6.5	27.6	28.0	13.4	3.4	.6	1.3	.0	1.7	86.2	
	TOT %	5.2	6.7	27.6	28.2	14.0	3.4	.6	1.3	.0	1.7	88.8	
	TOT OBS												116
	TOT PCT	5.2	6.9	32.5	31.9	15.5	3.4	.6	2.2	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.9	.0	.0	.0	.0	.0	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.6	1.1	.6	.0	.0	.0	.0		2.6	
	11-21	.0	.0	3.4	1.7	.0	.0	.0	.9	.0		6.0	
	22+	.0	.0	.0	.9	.9	.0	.0	.0	.0		1.7	
	TOT %	.0	.2	4.1	3.7	1.5	.0	.0	.9	.0	.0	10.3	
10+	0-3	.0	.0	1.7	.0	1.3	1.3	.0	.0	.0	1.7	6.0	
	4-10	4.5	5.2	5.6	8.2	4.7	.2	.6	1.1	.0		30.2	
	11-21	.6	1.5	19.6	15.9	6.7	.2	.0	.2	.0		44.8	
	22+	.0	.0	.6	4.1	1.3	1.7	.0	.0	.0		7.8	
	TOT %	5.2	6.7	27.6	28.2	14.0	3.4	.6	1.3	.0	1.7	88.8	
	TOT OBS												116
	TOT PCT	5.2	6.9	32.5	31.9	15.5	3.4	.6	2.2	.0	1.7	100.0	

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1879-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.9	11.4	14.3	5.7	.0	.0	.0	.0	34.3	65.7	35
06&09	.0	.0	5.9	11.8	23.5	5.9	.0	.0	.0	5.9	52.9	47.1	17
12&15	.0	.0	.0	16.0	12.0	20.0	.0	.0	.0	4.0	52.0	48.0	25
18&21	.0	.0	3.0	6.1	36.4	3.0	3.0	3.0	.0	.0	54.5	45.5	33
TOT	0	0	3	12	24	9	1	1	0	2	52	58	110
PCT	.0	.0	2.7	10.9	21.8	8.2	.9	.9	.0	1.8	47.3	52.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	2.6	10.3	87.2	39
06&09	.0	.0	.0	.0	11.1	88.9	18
12&15	.0	.0	.0	3.3	13.3	83.3	30
18&21	.0	.0	.0	.0	6.1	93.9	33
TOT	0	0	0	2	12	106	120
PCT	.0	.0	.0	1.7	10.0	88.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.9	17.6	20.6	61.8	34
06&09	.0	5.9	17.6	35.3	47.1	17
12&15	.0	.0	20.8	33.3	45.8	24
18&21	.0	3.0	9.1	45.5	45.5	33
TOT	0	3	17	36	55	108
PCT	.0	2.8	15.7	33.3	50.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	1.6	.0	.0	.0	.0	2	1.6
80/84	.0	.0	.0	.0	.8	5.6	1.6	.0	10	8.0
75/79	.0	.0	.0	1.6	6.4	19.2	20.8	12.0	75	60.0
70/74	.0	.0	.0	4.0	12.8	6.4	3.2	4.0	38	30.4
TOTAL	0	0	0	9	25	39	32	20	125	100.0
PCT	.0	.0	.0	7.2	20.0	31.2	25.6	16.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.4	1.2	.0	.0	.0	.0	.0	.0
	.6	2.0	4.2	.2	.0	.0	.6	.4	.0	.0
	4.2	3.8	24.6	20.2	5.0	.6	.0	.8	.0	.8
	.8	.0	2.4	14.6	11.4	1.2	.0	.0	.0	.0
	5.6	5.8	31.6	36.2	16.4	1.8	.6	1.2	.0	.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	88	83	77	73	73	73	77.6	49
06&09	79	78	78	75	71	70	70	75.6	25
12&15	79	78	78	76	71	71	71	75.5	34
18&21	80	79	79	75	70	70	70	74.9	37
TOT	89	85	82	76	71	70	70	76.1	145

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	12.2	22.0	36.6	14.6	14.6	75	41
06&09	.0	4.3	13.0	30.4	30.4	21.7	80	23
12&15	.0	.0	19.4	29.0	25.8	25.8	80	31
18&21	.0	8.3	22.2	27.8	38.9	2.8	76	36
TOT	0	9	26	41	35	20	77	131

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1879-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.9	1	.0	.9
5	.0	.0	.9	.9	.0	.0	2	.0	1.9
4	.0	.0	.0	.9	.0	.0	1	.0	.9
3	.0	.0	1.9	1.9	.9	.0	5	.0	4.7
2	.0	.9	.0	.9	.0	.0	2	.0	1.9
1	.0	.0	4.7	.9	.0	.0	6	.0	5.7
0	.0	.9	5.7	.0	.0	.0	7	.0	6.6
-1	.0	3.8	8.5	.0	.0	.0	13	.0	12.3
-2	.0	2.8	6.6	.0	.0	.0	10	.0	9.4
-3	.0	11.3	3.8	.0	.0	.0	16	.0	15.1
-4	.0	11.3	1.9	.0	.0	.0	14	.0	13.2
-5	.9	8.5	.9	.0	.0	.0	11	.0	10.4
-6	.9	3.8	1.9	.0	.0	.0	7	.0	6.6
-7/-8	8.5	1.9	.0	.0	.0	.0	11	.0	10.4
TOTAL	11	48	39	6	1	1	106	0	106
PCT	10.4	45.3	36.8	5.7	.9	.9	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2
1-2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	1.1	1.1	.0	.0	.0	2.2
5-6	.0	1.4	.0	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.2	1.1	.0	.0	.0	7.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	1.8	.7	.0	.0	.0	2.5
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	1.1	.0	.0	.0	4.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.9	.0	.0	.0	.0	.0	2.9
1-2	.0	5.1	2.9	.0	.0	.0	8.0
3-4	.0	1.4	14.9	1.1	.0	.0	17.4
5-6	.0	.0	5.1	.0	.0	.0	5.1
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	6.5	23.9	1.1	.0	.0	34.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	.7	.4	.0	.0	.0	1.1
3-4	.0	6.2	6.5	.4	.0	.0	13.0
5-6	.0	1.8	6.5	.4	.0	.0	8.7
7	.0	.4	1.8	.0	.0	.0	2.2
8-9	.0	.0	.4	1.4	.0	.0	1.8
10-11	.0	.0	.0	1.4	.0	.0	1.4
12	.0	.0	.0	1.4	.0	.0	1.4
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.9	15.6	5.1	.0	.0	31.5

PERIOD: (OVER-ALL) 1963-1977 JULY AREA 0015 NIUE ISLAND

TABLE 18 (CONT) 19.05 169.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	1.1	.0	.0	.0	.0	2.5
1-2	.0	2.2	1.1	.0	.0	.0	3.3
3-4	.0	2.2	1.1	.0	.0	.0	3.3
5-6	.0	1.1	1.1	1.1	.0	.0	3.3
7	.0	1.1	.0	.0	.0	.0	1.1
8-9	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	1.4	.0	.0	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	7.6	5.8	1.1	.0	.0	15.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	1.4	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.0	1.4	.0	.0	1.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	1.4	.4	.0	.0	.0	1.8	
5-6	.0	.0	1.4	.0	.0	.0	1.4	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.4	1.8	.0	.0	.0	3.3	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	5.8	.0	.0	.0	.0	11.6	
1-2	.0	10.1	4.3	.0	.0	.0	14.5	
3-4	.0	14.5	24.6	1.4	.0	.0	40.6	
5-6	.0	4.3	14.5	1.4	.0	.0	20.3	
7	.0	1.4	2.9	1.4	.0	.0	5.8	
8-9	.0	.0	1.4	1.4	.0	.0	2.9	
10-11	.0	.0	1.4	1.4	.0	.0	2.9	
12	.0	.0	.0	1.4	.0	.0	1.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								69
TOT PCT	5.8	36.2	49.3	8.7	.0	.0	100.0	

PERIOD: (OVER-ALL) 1952-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.5	5.8	16.3	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	3
6-7	.0	1.2	5.8	9.3	5.8	3.5	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	.0	1.2	5.8	5.8	3.5	2.3	1.2	3.5	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	9
10-11	.0	.0	.0	.0	2.3	1.2	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
12-13	.0	.0	.0	.0	.0	.0	3.5	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
>13	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	.0	.0	1.2	1.2	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
TOTAL	3	5	21	13	17	7	8	2	4	2	1	0	0	0	0	0	0	0	0	86	6
PCT	3.5	7.0	24.4	17.4	19.8	8.1	9.3	2.3	4.7	2.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1951-1977
(OVER-ALL) 1868-1977

AREA 0015 NIUE ISLAND
19.1S 169.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	21.1	.0	.0	.0	.0	.0	.0	78.9
NE	3.7	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	96.3
E	2.4	.0	.0	.0	.0	.0	.0	2.4	2.4	.0	.0	.0	.0	.0	.0	95.3
SE	6.5	4.3	.0	.0	.0	.0	.0	10.8	2.7	2.2	.0	.0	.0	.0	.0	84.4
S	9.5	.0	.0	.0	.0	.0	.0	9.5	.0	.0	.0	.0	.0	.0	.0	90.5
SW	20.0	20.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	.0	60.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	8.9	2.5	.0	.0	.0	.0	.0	8.4	2.5	.8	.0	.0	.0	.0	.0	88.2
TOT OBS:	319															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.4	5.4	.0	.0	.0	.0	.0	10.8	.0	.0	.0	.0	.0	.0	.0	89.2
06&09	8.7	.0	.0	.0	.0	.0	.0	8.7	8.7	.0	.0	.0	.0	.0	.0	82.6
12&15	9.4	3.1	.0	.0	.0	.0	.0	12.5	.0	3.1	.0	.0	.0	.0	.0	84.4
18&21	3.4	.0	.0	.0	.0	.0	.0	3.4	3.4	.0	.0	.0	.0	.0	.0	93.1
TOT PCT	6.6	2.5	.0	.0	.0	.0	.0	9.1	2.5	.8	.0	.0	.0	.0	.0	87.6
TOT OBS:	121															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	2.4	2.4	.0	.0	.0		4.8	9.3	11.0	.0	3.6	.0	.0	.0	2.9	.0
NE	.0	5.3	.3	.2	.0	.0		5.8	7.7	5.5	.0	.9	.0	3.3	.0	14.0	.0
E	.0	8.1	10.8	4.7	.0	.0		23.5	14.5	22.0	.0	22.3	.0	22.4	.0	28.7	100.0
SE	.2	16.6	17.7	3.9	1.3	.0		39.7	14.3	42.5	100.0	38.4	100.0	44.7	.0	27.9	.0
S	.5	6.9	8.2	1.0	.0	.0		16.6	12.5	13.5	.0	20.5	.0	16.4	100.0	17.6	.0
SW	.0	3.4	1.6	.0	.0	.0		5.0	9.4	1.5	.0	14.3	.0	7.9	.0	.0	.0
W	.0	3.1	.0	.0	.0	.0		3.1	7.3	3.5	.0	.0	.0	5.3	.0	2.9	.0
NW	.0	.0	.2	.0	.0	.0		.2	15.0	.5	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.0	.0	.0	.0	.0	.0	5.9	.0
TOT OBS	3	71	64	15	2	0	155		12.8	50	2	28	1	38	1	34	1
TOT PCT	1.9	45.8	41.3	9.7	1.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	2.4	.0	.0	.0		4.8	9.3	10.6	3.4	.0	2.9
NE	2.4	3.1	.3	.0	.0		5.8	7.7	5.3	.9	3.2	13.6
E	4.2	12.3	4.7	2.4	.0		23.5	14.5	21.2	21.6	21.8	30.7
SE	5.0	20.0	12.6	2.1	.0		39.7	14.3	44.7	40.5	43.6	27.1
S	2.7	8.4	5.5	.0	.0		16.6	12.5	13.0	19.8	18.6	17.1
SW	2.6	1.6	.8	.0	.0		5.0	9.4	1.4	13.8	7.7	.0
W	1.3	1.8	.0	.0	.0		3.1	7.3	3.4	.0	5.1	2.9
NW	.0	.2	.0	.0	.0		.2	15.0	.5	.0	.0	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.0	.0	.0	5.7
TOT OBS	34	77	37	7	0	155		12.8	52	29	39	35
TOT PCT	21.9	49.7	23.9	4.5	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1951-1977
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.0	40.4	46.2	11.5	1.9	.0	13.8	100.0	52
06&09	.0	.0	48.3	37.9	10.3	3.4	.0	13.2	100.0	29
12&15	.0	2.6	51.3	43.6	2.6	.0	.0	11.5	100.0	39
18&21	5.7	.0	45.7	34.3	14.3	.0	.0	12.6	100.0	35
TOT	2	1	71	64	15	2	0	12.8		155
PCT	1.3	.6	45.8	41.3	9.7	1.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	.7	1.9	.0		3.7
NE	1.4	1.9	2.4	.0		3.7
E	8.1	4.5	9.3	5.5		4.7
SE	4.5	9.0	14.5	9.3		5.3
S	4.0	5.0	5.2	3.2		4.6
SW	.0	2.4	.0	1.9		5.5
W	.0	1.9	1.0	.0		2.6
NW	.0	.2	.0	.0		4.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	21	27	36	21	105	4.8
TOT PCT	20.0	25.7	34.3	20.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	
NE	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	4.8	
E	.0	.0	.0	.7	6.9	1.9	.0	.0	.0	.0	17.9	
SE	.0	1.9	1.2	6.9	4.8	1.0	1.0	1.0	.0	.0	19.8	
S	.0	.0	.7	1.0	.7	2.9	1.0	.0	.0	.0	11.4	
SW	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	2.4	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	2	3	9	15	6	2	1	0	0	67	105
TOT PCT	.0	1.9	2.9	8.6	14.3	5.7	1.9	1.0	.0	.0	63.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ■ OR >10	■ OR >5	■ OR >2	■ OR >1	■ OR >1/2	■ OR >1/4	■ OR >50YD	■ OR >0
■ OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
■ OR >5000	.9	.9	.9	.9	.9	.9	.9	.9
■ OR >3500	1.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8
■ OR >2000	5.7	8.5	8.5	8.5	8.5	8.5	8.5	8.5
■ OR >1000	18.9	22.6	22.6	22.6	22.6	22.6	22.6	22.6
■ OR >600	23.6	30.2	30.2	30.2	31.1	31.1	31.1	31.1
■ OR >300	24.5	32.1	33.0	33.0	34.0	34.0	34.0	34.0
■ OR >150	24.5	34.0	34.9	34.9	35.8	35.8	35.8	35.8
■ OR > 0	24.5	34.0	34.9	34.9	35.8	35.8	35.8	35.8
TOTAL	26	36	37	37	38	38	38	38

TOTAL NUMBER OF OBS: 106 PCT FREQ NH <5/8: 64.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.8	11.6	15.2	22.3	11.6	5.4	12.5	6.3	13.4	.0	112

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PERIOD: (PRIMARY) 1951-1977
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
1<2	PCP	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
2<5	PCP	.0	.2	.6	.0	.0	.8	.0	.0	.0	.0	1.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.6	.0	.0	.8	.0	.0	.0	.0	1.7	
5<10	PCP	.0	.0	.0	2.5	.8	.8	.0	.0	.0	.0	4.2	
	NO PCP	.0	.0	.0	6.7	.8	.0	.0	.0	.0	.0	7.6	
	TOT %	.0	.0	.0	9.2	1.7	.8	.0	.0	.0	.0	11.8	
10+	PCP	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.8	
	NO PCP	4.0	5.5	26.1	28.2	15.1	2.5	2.5	.2	.0	.0	84.0	
	TOT %	4.0	5.5	26.1	28.2	16.0	2.5	2.5	.2	.0	.0	84.9	
	TOT OBS												119
	TOT PCT	4.0	5.7	26.7	39.1	17.6	4.2	2.5	.2	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.8	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.8	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.6	.0	.0	.8	.0	.0	.0		1.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.6	.0	.0	.8	.0	.0	.0	.0	1.7	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	5.0	.0	.8	.0	.0	.0		5.9	
	11-21	.0	.0	.0	1.7	1.7	.0	.0	.0	.0		3.4	
	22+	.0	.0	.0	2.5	.0	.0	.0	.0	.0		2.5	
	TOT %	.0	.0	.0	9.2	1.7	.8	.0	.0	.0	.0	11.8	
10+	0-3	.0	.0	.0	.2	.6	.0	.0	.0	.0	.0	.8	
	4-10	1.7	4.8	8.4	7.6	6.9	.8	2.5	.0	.0		32.8	
	11-21	2.3	.4	12.4	16.2	7.1	1.7	.0	.2	.0		40.3	
	22+	.0	.2	5.3	4.2	1.3	.0	.0	.0	.0		10.9	
	TOT %	4.0	5.5	26.1	28.2	16.0	2.5	2.5	.2	.0	.0	84.9	
	TOT OBS												119
	TOT PCT	4.0	5.7	26.7	39.1	17.6	4.2	2.5	.2	.0	.0	100.0	

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PERIOD: (PRIMARY) 1951-1977
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.2	6.5	6.5	.0	3.2	.0	.0	.0	19.4	80.6	31
06&09	.0	10.0	5.0	15.0	15.0	5.0	.0	5.0	.0	.0	55.0	45.0	20
12&15	.0	.0	3.3	6.7	16.7	10.0	.0	.0	.0	.0	36.7	63.3	30
18&21	.0	.0	.0	7.4	18.5	7.4	3.7	.0	.0	.0	37.0	63.0	27
TOT	0	2	3	9	15	6	2	1	0	0	38	70	108
PCT	.0	1.9	2.8	8.3	13.9	5.6	1.9	.9	.0	.0	35.2	64.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	2.7	2.7	13.5	81.1	37
06&09	.0	.0	.0	4.3	13.0	82.6	23
12&15	.0	.0	.0	.0	9.4	90.6	32
18&21	.0	3.4	.0	.0	10.3	86.2	29
TOT	0	1	1	2	14	103	121
PCT	.0	.8	.8	1.7	11.6	85.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <5CYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.2	9.7	9.7	80.6	31
06&09	.0	15.8	31.6	26.3	42.1	19
12&15	.0	3.4	10.3	27.6	62.1	29
18&21	.0	3.7	7.4	29.6	63.0	27
TOT	0	6	14	24	68	106
PCT	.0	5.7	13.2	22.6	64.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.8	.0	2.4	.0	.0	4	3.2
75/79	.0	.0	.0	1.6	4.8	11.2	20.8	4.0	53	42.4
70/74	.0	.0	.0	3.2	10.4	17.6	13.6	9.6	68	54.4
TOTAL	0	0	0	7	19	39	43	17	125	100.0
PCT	.0	.0	.0	5.6	15.2	31.2	34.4	13.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
2.4	.0	.0	.0	.8	.0	.0	.0	.0	.0
2.2	6.2	14.4	14.0	2.2	1.8	.6	.2	.0	.8
.0	.8	10.4	22.8	15.4	4.2	.0	.0	.0	.8
4.6	7.0	24.8	36.8	18.4	6.0	.6	.2	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	81	80	80	76	71	69	69	75.7	51
06&09	82	81	79	74	71	71	71	74.4	29
12&15	77	76	76	73	70	69	69	73.3	38
18&21	79	78	78	74	71	70	70	74.6	36
TOT	82	81	79	74	71	69	69	74.5	154

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.7	28.6	37.1	17.1	11.4	75	35
06&09	.0	3.8	.0	53.8	26.9	15.4	80	26
12&15	.0	3.0	12.1	21.2	45.5	18.2	80	33
18&21	.0	9.4	15.6	15.6	50.0	9.4	78	32
TOT	0	7	19	39	44	17	78	126

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
3	.0	1.0	.0	1.0	2	.0	2.1
2	.0	1.0	1.0	1.0	3	.0	3.1
1	.0	1.0	1.0	1.0	3	.0	3.1
0	1.0	10.3	6.2	.0	17	.0	17.5
-1	1.0	8.2	4.1	.0	13	.0	13.4
-2	.0	9.3	3.1	.0	12	.0	12.4
-3	7.2	11.3	1.0	.0	19	.0	19.6
-4	2.1	3.1	1.0	.0	6	.0	6.2
-5	5.2	6.2	.0	.0	11	.0	11.3
-6	7.2	2.1	.0	.0	9	.0	9.3
-7/-8	1.0	.0	.0	.0	1	.0	1.0
-9/-10	1.0	.0	.0	.0	1	.0	1.0
TOTAL	25	52	17	3	97	0	97
PCT	25.8	53.6	17.5	3.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.9	.0	.0	.0	2.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.5	.0	.0	.0	.0	2.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.6	.4	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	.4	.0	.0	.0	4.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	5.7	1.6	.0	.0	.0	7.4
3-4	.0	1.6	7.4	.0	.0	.0	9.0
5-6	.0	.0	6.1	.0	.0	.0	6.1
7	.0	.0	1.6	.0	.0	.0	1.6
8-9	.0	.0	1.6	.0	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.6	.0	.0	1.6
13-16	.0	1.6	.0	2.9	.0	.0	4.5
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	1.6	.0	.0	1.6
23-25	.0	.0	.0	1.6	.0	.0	1.6
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.7	18.4	7.8	.0	.0	36.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	3.7	5.7	.0	.0	.0	9.4
5-6	.0	.0	8.2	.4	.0	.0	8.6
7	.0	.0	3.7	2.0	.0	.0	5.7
8-9	.0	.0	3.3	.0	1.6	.0	4.9
10-11	.0	.0	.0	1.6	1.6	.0	3.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	20.9	4.5	3.3	.0	34.0

PERIOD: (OVER-ALL) 1963-1977 AUGUST AREA 0015 NIUE ISLAND

TABLE 18 (CONT) 19.1S 169.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	2.9	3.3	.0	.0	.0	6.1
5-6	.0	.0	4.9	1.2	.0	.0	6.1
7	.0	.0	4.1	1.2	.0	.0	5.3
8-9	.0	.0	1.2	.0	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	13.5	2.5	.0	.0	20.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.8	.0	.0	.0	.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.4	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.4	.0	.0	.0	.4	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	3.3	.0	.0	.0	.0	3.3	
1-2	.0	9.8	1.6	.0	.0	.0	11.5	
3-4	.0	8.2	18.0	.0	.0	.0	26.2	
5-6	.0	1.6	21.3	1.6	.0	.0	24.6	
7	.0	.0	9.8	3.3	.0	.0	13.1	
8-9	.0	.0	6.6	.0	1.6	.0	8.2	
10-11	.0	.0	.0	1.6	1.6	.0	3.3	
12	.0	.0	.0	1.6	.0	.0	1.6	
13-16	.0	1.6	.0	3.3	.0	.0	4.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	1.6	.0	.0	1.6	
23-25	.0	.0	.0	1.6	.0	.0	1.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	24.6	57.4	14.8	3.3	.0	100.0	61

PERIOD: (OVER-ALL) 1949-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	2.3	5.8	10.5	1.2	2.3	2.3	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
6-7	.0	1.2	5.8	4.7	9.3	4.7	3.5	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
8-9	.0	.0	.0	2.3	10.5	3.5	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
10-11	.0	1.2	.0	1.2	2.3	.0	3.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
12-13	.0	.0	.0	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	14
>13	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	.0	.0	.0	5	22
INDFT	.0	1.2	.0	3.5	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
TOTAL	1	5	10	19	22	10	9	3	2	1	0	2	2	0	0	0	0	0	0	86	7
PCT	1.2	5.8	11.6	22.1	25.6	11.6	10.5	3.5	2.3	1.2	.0	2.3	2.3	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1955-1977
(OVER-ALL) 1869-1977

AREA 0015 NIUE ISLAND
19.1S 169.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0		.0	97.1
E	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0		.0	88.9
SE	10.1	3.4	.0	.0	.0	.0	.0	13.4	7.6	.0	.0	.0	.0		.0	79.0
S	6.6	.0	.0	.0	.0	.0	.0	6.6	.0	.0	.0	.0	6.6		.0	86.9
SW	.0	22.2	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0		.0	77.8
W	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0		.0	50.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	4.8	1.9	.0	.0	.0	.0	.0	6.7	5.7	.0	.0	.0	1.0		.0	86.7
TOT OBS:	105															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0		.0	87.1
06&09	7.1	3.6	.0	.0	.0	.0	.0	10.7	3.6	.0	.0	.0	.0		.0	85.7
12&15	4.2	.0	.0	.0	.0	.0	.0	4.2	4.2	.0	.0	.0	.0		.0	91.7
18&21	8.3	4.2	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	4.2		.0	83.3
TOT PCT	4.7	1.9	.0	.0	.0	.0	.0	6.5	5.6	.0	.0	.0	.9		.0	86.9
TOT OBS:	107															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	4.8	1.4	.0	.0	.0		6.2	8.8	11.5	.0	7.8	.0	.0	.0	4.0	.0
NE	.8	4.8	1.2	.0	.0	.0		6.8	6.6	3.8	.0	3.9	.0	12.9	.0	9.0	.0
E	.0	14.0	13.8	3.5	.0	.0		31.2	12.9	30.8	.0	35.9	.0	38.8	.0	22.0	.0
SE	.0	9.5	20.2	1.9	.0	.0		31.6	13.7	28.8	.0	32.8	62.5	32.8	100.0	29.0	.0
S	.8	6.2	7.2	.0	.0	.0		14.1	11.0	13.5	100.0	12.5	37.5	11.2	.0	16.0	.0
SW	.0	.6	3.7	.0	.0	.0		4.3	14.6	5.8	.0	6.3	.0	.9	.0	4.0	.0
W	.8	.8	.0	.0	.0	.0		1.6	5.5	2.6	.0	.0	.0	.0	.0	4.0	.0
NW	.0	1.9	.0	.0	.0	.0		1.9	7.6	3.2	.0	.8	.0	.0	.0	4.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	.0	.0	.0	.0	3.4	.0	8.0	.0
TOT OBS	6	55	61	7	0	0	129		11.8	39	1	32	2	29	1	25	0
TOT PCT	4.7	42.6	47.3	5.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.1	4.1	.0	.0	.0		6.2	8.8	11.3	7.4	.0	4.0
NE	3.9	2.9	.0	.0	.0		6.8	6.6	3.8	3.7	12.5	9.0
E	7.0	14.3	9.3	.6	.0		31.2	12.9	30.0	33.8	37.5	22.0
SE	1.7	20.7	8.9	.2	.0		31.6	13.7	28.1	34.6	35.0	29.0
S	.8	12.2	1.2	.0	.0		14.1	11.0	15.6	14.0	10.8	16.0
SW	.0	2.7	1.6	.0	.0		4.3	14.6	5.6	5.9	.8	4.0
W	.8	.8	.0	.0	.0		1.6	5.5	2.5	.0	.0	4.0
NW	.0	1.9	.0	.0	.0		1.9	7.6	3.1	.7	.0	4.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	.0	.0	3.3	8.0
TOT OBS	24	77	27	1	0	129		11.8	40	34	30	25
TOT PCT	18.6	59.7	20.9	.8	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1955-1977
(OVER-ALL) 1869-1977

AREA 0015 NIUE ISLAND
19.1S 169.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	2.5	30.0	60.0	7.5	.0	.0	13.3	100.0	40
06&09	.0	.0	52.9	38.2	8.8	.0	.0	12.1	100.0	34
12&15	3.3	3.3	46.7	46.7	.0	.0	.0	10.0	100.0	30
18&21	8.0	4.0	44.0	40.0	4.0	.0	.0	11.0	100.0	25
TOT	3	3	55	61	7	0	0	11.8		129
PCT	2.3	2.3	42.6	47.3	5.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	1.8	2.6	.0		4.7
NE	2.9	1.3	3.7	1.1		4.2
E	4.5	10.3	11.1	4.5		4.9
SE	3.7	10.0	9.2	6.1		5.0
S	3.9	2.4	4.2	4.5		4.9
SW	.0	1.3	1.6	1.8		6.4
W	1.1	.0	.0	1.1		4.0
NW	.0	.3	2.4	.0		6.2
VAR	.0	.0	.0	.0		.0
CALM	2.1	.0	.0	.0		1.0
TOT OBS	18	26	33	18	95	4.9
TOT PCT	18.9	27.4	34.7	18.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	
NE	.0	.0	.0	1.1	2.1	.0	.0	.0	.0	.0	5.8	
E	.0	.0	1.8	2.9	.0	3.9	.8	.0	.0	.0	20.8	
SE	.0	.0	.3	2.4	6.3	4.5	.3	1.1	.0	.0	14.2	
S	.0	.0	.0	1.1	1.6	1.8	1.1	1.1	.0	.0	8.4	
SW	.0	.0	.0	1.1	.5	1.3	.0	.0	.0	.0	1.8	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
NW	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
TOT OBS	0	0	2	8	10	11	2	2	1	0	59	95
TOT PCT	.0	.0	2.1	8.4	10.5	11.6	2.1	2.1	1.1	.0	62.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >3500	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
= OR >2000	15.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
= OR >1000	24.7	25.8	26.8	26.8	26.8	26.8	26.8	26.8
= OR >600	30.9	32.0	35.1	35.1	35.1	35.1	35.1	35.1
= OR >300	33.0	34.0	37.1	37.1	37.1	37.1	37.1	37.1
= OR >150	33.0	34.0	37.1	37.1	37.1	37.1	37.1	37.1
= OR > 0	33.0	34.0	37.1	37.1	37.1	37.1	37.1	37.1
TOTAL	32	33	36	36	36	36	36	36

TOTAL NUMBER OF OBS: 97 PCT FREQ NH <5/8: 62.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.9	6.9	16.8	20.8	9.9	6.9	6.9	11.9	12.9	.0	101

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	1.0	1.0	1.0	1.0	.0	.0	.0	3.8	
	NO PCP	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	1.0	.0	1.0	1.0	1.0	1.0	.0	.0	.0	4.8	
5<10	PCP	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	.2	2.4	3.1	1.9	.0	.0	.0	.0	.0	7.6	
	TOT %	.0	.2	2.4	4.0	1.9	.0	.0	.0	.0	.0	8.6	
10+	PCP	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	1.9	
	NO PCP	7.6	6.9	27.6	21.4	11.7	3.3	1.0	2.4	.0	2.9	84.8	
	TOT %	7.6	6.9	27.6	23.3	11.7	3.3	1.0	2.4	.0	2.9	86.7	
	TOT OBS												105
	TOT PCT	7.6	8.1	30.0	28.3	14.5	4.3	1.9	2.4	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	
	4-10	.0	1.0	.0	.0	.0	.0	.0	.0	.0		1.0	
	11-21	.0	.0	.0	1.0	1.0	1.0	.0	.0	.0		2.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	1.0	.0	1.0	1.0	1.0	1.0	.0	.0	.0	4.8	
5<10	0-3	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	
	4-10	.0	.2	2.4	.2	.0	.0	.0	.0	.0		2.9	
	11-21	.0	.0	.0	3.8	1.0	.0	.0	.0	.0		4.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	2.4	4.0	1.9	.0	.0	.0	.0	.0	8.6	
10+	0-3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	2.9	3.8	
	4-10	6.0	4.5	9.8	6.2	4.8	.7	1.0	2.4	.0		35.2	
	11-21	1.7	1.4	15.2	16.0	6.9	2.6	.0	.0	.0		43.8	
	22+	.0	.0	2.6	1.2	.0	.0	.0	.0	.0		3.8	
	TOT %	7.6	6.9	27.6	23.3	11.7	3.3	1.0	2.4	.0	2.9	86.7	
	TOT OBS												105
	TOT PCT	7.6	8.1	30.0	28.3	14.5	4.3	1.9	2.4	.0	2.9	100.0	

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PERIOD: (PRIMARY) 1955-1977
(OVER-ALL) 1869-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	.0	3.7	11.1	.0	3.7	3.7	.0	22.2	77.8	27
06&09	.0	.0	3.7	11.1	7.4	22.2	3.7	.0	.0	.0	48.1	51.9	27
12&15	.0	.0	4.5	13.6	22.7	.0	4.5	.0	.0	.0	45.5	54.5	22
18&21	.0	.0	.0	9.1	9.1	9.1	.0	4.5	.0	.0	31.8	68.2	22
TOT	0	0	2	8	10	11	2	2	1	0	36	62	98
PCT	.0	.0	2.0	8.2	10.2	11.2	2.0	2.0	1.0	.0	36.7	63.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	3.2	9.7	87.1	31
06&09	.0	.0	.0	10.7	7.1	82.1	28
12&15	.0	.0	.0	.0	12.5	87.5	24
18&21	.0	.0	.0	4.2	4.2	91.7	24
TOT	0	0	0	5	9	93	107
PCT	.0	.0	.0	4.7	8.4	86.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50VSBY	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	3.7	22.2	74.1	27
06&09	.0	3.7	18.5	29.6	51.9	27
12&15	.0	4.5	18.2	27.3	54.5	22
18&21	.0	.0	14.3	23.8	61.9	21
TOT	0	2	13	25	59	97
PCT	.0	2.1	13.4	25.8	60.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	1.7	2.6	1.7	.0	7	6.1
75/79	.0	.0	.9	1.7	3.5	21.7	28.7	13.9	81	70.4
70/74	.0	.0	.0	.0	6.1	6.1	6.1	4.3	26	22.6
65/69	.0	.0	.0	.0	.9	.0	.0	.0	1	.9
TOTAL	0	0	1	2	14	35	42	21	115	100.0
PCT	.0	.0	.9	1.7	12.2	30.4	36.5	18.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.9	4.3	.0	.0	.0	.9	.0	.0	.0
	6.1	6.7	23.7	21.3	4.8	3.9	.0	2.2	.0	1.7
	.0	.0	4.8	7.6	7.6	.9	.9	.0	.0	.9
	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0
	6.1	7.6	32.8	29.8	12.4	4.8	1.7	2.2	.0	2.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	86	81	77	73	72	72	77.4	42
06&09	81	80	79	75	70	70	70	75.4	34
12&15	82	81	77	75	72	69	69	75.2	30
18&21	79	78	78	76	71	70	70	75.4	23
TOT	87	83	80	76	72	70	69	76.0	129

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.0	15.2	39.4	27.3	15.2	79	33
06&09	.0	6.5	6.5	25.8	41.9	19.4	80	31
12&15	.0	.0	16.7	20.0	43.3	20.0	81	30
18&21	.0	.0	8.7	39.1	34.8	17.4	81	23
TOT	0	3	14	36	43	21	80	117

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
5	.0	.0	.0	.0	1.1	1	.0	1.1
2	.0	.0	1.1	1.1	.0	2	.0	2.2
1	.0	.0	9.7	.0	.0	9	.0	9.7
0	1.1	3.2	8.6	.0	.0	12	.0	12.9
-1	.0	4.3	15.1	1.1	.0	19	.0	20.4
-2	.0	7.5	5.4	1.1	.0	13	.0	14.0
-3	3.2	5.4	3.2	.0	.0	11	.0	11.8
-4	3.2	6.5	1.1	.0	.0	10	.0	10.8
-5	.0	6.5	1.1	.0	.0	7	.0	7.5
-6	.0	3.2	1.1	.0	.0	4	.0	4.3
-7/-8	1.1	3.2	1.1	.0	.0	5	.0	5.4
TOTAL	8	37	44	3	1	93	0	93
PCT	8.6	39.8	47.3	3.2	1.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	.0	.0	.0	.0	2.7
3-4	.0	4.2	1.1	.0	.0	.0	5.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.8	1.1	.0	.0	.0	8.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	1.5	3.0	.0	.0	.0	.0	4.5
3-4	.0	1.5	.4	.0	.0	.0	1.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	4.9	.4	.0	.0	.0	6.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3
1-2	.0	4.2	1.5	.0	.0	.0	5.7
3-4	.0	6.1	1.5	1.5	.0	.0	9.1
5-6	.0	.0	5.7	.0	.0	.0	5.7
7	.0	.0	4.5	.0	.0	.0	4.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.1	.0	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.5	14.4	1.5	.0	.0	28.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.4	.4	.0	.0	.0	.8
3-4	.0	3.0	8.7	1.5	.0	.0	13.3
5-6	.0	.0	11.0	.0	.0	.0	11.0
7	.0	.0	6.1	.0	.0	.0	6.1
8-9	.0	.0	1.5	.0	.0	.0	1.5
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	28.0	1.5	.0	.0	33.3

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TABLE 18 (CONT) 19.1S 169.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.7	.0	.0	.0	2.7
3-4	.0	.0	4.5	.0	.0	.0	4.5
5-6	.0	1.1	1.1	.0	.0	.0	2.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	8.3	.0	.0	.0	9.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.4	.0	.0	.0	3.4
5-6	.0	.4	.4	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	3.8	.0	.0	.0	4.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	.0	.0	.0	.0	.0	1.5
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	1.5	.0	.0	.0	.0	3.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.9	.0	.0	.0	.0	1.9	
3-4	.0	.4	.0	.0	.0	.0	.4	
5-6	.0	1.5	.0	.0	.0	.0	1.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.8	.0	.0	.0	.0	3.8	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.4	2.9	.0	.0	.0	.0	10.3	
1-2	1.5	13.2	4.4	.0	.0	.0	19.1	
3-4	.0	14.7	19.1	2.9	.0	.0	36.8	
5-6	.0	2.9	17.6	.0	.0	.0	20.6	
7	.0	.0	10.3	.0	.0	.0	10.3	
8-9	.0	.0	1.5	.0	.0	.0	1.5	
10-11	.0	.0	1.5	.0	.0	.0	1.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.8	33.8	54.4	2.9	.0	.0	100.0	68

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	1.1	11.4	6.8	4.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	4
6-7	.0	1.1	2.3	10.2	8.0	5.7	2.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	6
8-9	.0	.0	5.7	1.1	4.5	4.5	1.1	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
10-11	.0	1.1	.0	1.1	1.1	5.7	2.3	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
12-13	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.4	1.1	.0	3.4	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	9	7
TOTAL	3	4	18	20	16	16	5	2	1	2	0	0	0	1	0	0	0	0	0	88	6
PCT	3.4	4.5	20.5	22.7	18.2	18.2	5.7	2.3	1.1	2.3	.0	.0	.0	1.1	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1953-1977
(OVER-ALL) 1869-1977

AREA 0015 NIUE ISLAND
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	6.9	.0	.0	.0	.0	.0	6.9	1.7	.0	.0	.0	.0	.0	.0	91.4
E	1.8	6.4	.0	.0	.0	.0	.0	8.2	3.2	1.8	.0	.0	.0	.0	.0	86.8
SE	1.9	4.9	1.9	.0	.0	.0	.0	8.7	7.8	.0	.0	.0	.0	.0	.0	83.5
S	.0	3.7	.0	.0	.0	.0	.0	3.7	7.4	.0	.0	.0	.0	.0	.0	88.9
SW	.0	12.5	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0	87.5
W	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	80.0	.0	.0	.0	.0	.0	20.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	5.6	.7	.0	.0	.0	.0	7.6	5.6	1.4	.0	.0	.0	.0	.0	85.4
TOT OBS:	144															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
0003	.0	9.1	.0	.0	.0	.0	.0	9.1	9.1	.0	.0	.0	.0	.0	.0	81.8
0609	6.3	3.1	.0	.0	.0	.0	.0	9.4	.0	6.3	.0	.0	.0	.0	.0	84.4
1215	2.4	2.4	2.4	.0	.0	.0	.0	7.1	2.4	.0	.0	.0	.0	.0	.0	90.5
1821	.0	7.5	.0	.0	.0	.0	.0	7.5	10.0	.0	.0	.0	2.5	.0	.0	80.0
TOT PCT	2.0	5.4	.7	.0	.0	.0	.0	8.2	5.4	1.4	.0	.0	.7	.0	.0	84.4
TOT OBS:	147															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.9	.4	.0	.0	.0		1.3	10.3	.0	.0	2.1	.0	.0	.0	3.8	.0
NE	.6	6.8	2.5	.0	.0	.0		9.9	9.2	12.2	.0	7.1	.0	12.5	.0	9.4	.0
E	.6	18.8	17.1	1.9	.0	.0		38.4	12.4	43.0	.0	40.0	66.7	38.1	.0	36.9	.0
SE	1.2	7.9	20.6	5.7	.0	.0		35.4	15.0	40.1	50.0	26.4	33.3	29.2	80.0	37.5	100.0
S	.0	4.1	5.9	.0	.0	.0		10.0	12.1	4.7	50.0	17.9	.0	13.1	.0	6.9	.0
SW	.0	1.9	1.2	.0	.0	.0		3.1	9.0	.0	.0	3.6	.0	2.4	20.0	5.0	.0
W	.0	1.2	.0	.0	.0	.0		1.2	4.5	.0	.0	.0	.0	4.8	.0	.0	.0
NW	.0	.7	.0	.0	.0	.0		.7	5.0	.0	.0	2.9	.0	.0	.0	.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0							.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	4	72	81	13	0	0	170		12.7	43	1	35	3	42	5	40	1
TOT PCT	2.4	42.4	47.6	7.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.4	.9	.0	.0	.0		1.3	10.3	.0	2.0	.0	3.7
NE	2.4	7.5	.0	.0	.0		9.9	9.2	11.9	6.6	11.2	9.1
E	4.7	24.7	8.5	.4	.0		38.4	12.4	42.0	42.1	34.0	36.0
SE	1.9	20.7	11.5	1.3	.0		35.4	15.0	40.3	27.0	34.6	39.0
S	.4	8.4	1.2	.0	.0		10.0	12.1	5.7	16.4	11.7	6.7
SW	1.2	1.9	.0	.0	.0		3.1	9.0	.0	3.3	4.3	4.9
W	1.2	.0	.0	.0	.0		1.2	4.5	.0	.0	4.3	.0
NW	.7	.0	.0	.0	.0		.7	5.0	.0	2.6	.0	.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.0						.0	.0	.0	.0	.0	.0
TOT OBS	22	109	36	3	0	170		12.7	44	38	47	41
TOT PCT	12.9	64.1	21.2	1.8	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	2.3	34.1	54.5	9.1	.0	.0	13.6	100.0	44
06&09	.0	.0	36.8	55.3	7.9	.0	.0	13.0	100.0	38
12&15	.0	4.3	57.4	34.0	4.3	.0	.0	11.3	100.0	47
18&21	.0	2.4	34.0	48.8	9.8	.0	.0	12.9	100.0	41
TOT	0	4	72	81	13	0	0	12.7		170
PCT	.0	2.4	42.4	47.6	7.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.2	.0		5.5
NE	2.3	3.1	2.1	1.6		4.0
E	6.2	8.3	17.2	8.9		5.3
SE	5.4	9.1	11.0	8.3		5.0
S	.6	4.1	3.9	1.0		4.9
SW	.2	.2	2.3	.4		5.5
W	.0	.0	1.6	.0		6.0
NW	.0	.0	1.0	.0		5.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	19	32	52	26	129	5.0
TOT PCT	14.7	24.8	40.3	20.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
NE	.0	.0	.0	.8	1.6	.0	.0	.0	.0	.0	6.8	
E	.0	.0	.6	2.5	11.2	4.1	.8	.0	.0	.0	21.5	
SE	.8	.0	1.0	2.1	5.8	3.7	.8	.0	.0	.0	19.8	
S	.0	.0	.0	.0	3.1	.0	.4	.0	.0	.0	5.0	
SW	.0	.0	.0	.0	1.6	.0	.4	.0	.0	.0	1.2	
W	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
NW	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	1	0	2	8	31	10	3	0	0	0	74	129
TOT PCT	.8	.0	1.6	6.2	24.0	7.8	2.3	.0	.0	.0	57.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3300	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* OR >2000	8.3	10.6	10.6	10.6	10.6	10.6	10.6	10.6
* OR >1000	27.3	33.3	34.1	34.1	34.1	34.1	34.1	34.1
* OR >600	31.8	38.6	39.4	39.4	40.2	40.2	40.2	40.2
* OR >300	32.6	40.2	40.9	40.9	41.7	41.7	41.7	41.7
* OR >150	32.6	40.2	40.9	40.9	41.7	41.7	41.7	41.7
* OR > 0	33.3	40.9	41.7	41.7	42.4	42.4	42.4	42.4
TOTAL	44	54	55	55	56	56	56	56

TOTAL NUMBER OF OBS: 132 PCT FREQ NH <5/8: 57.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.7	10.0	15.0	20.0	10.7	16.4	8.6	6.4	11.4	.7	140

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
5<10	PCP	.0	.0	1.9	.9	.0	.0	.0	.0	.0	.0	2.8	
	NO PCP	.5	.2	3.8	4.2	1.0	.0	.0	.0	.0	.0	9.7	
	TOT %	.5	.2	5.7	5.0	1.0	.0	.0	.0	.0	.0	12.5	
10+	PCP	.0	.0	1.2	2.3	.3	.3	.0	.0	.0	.0	4.2	
	NO PCP	1.0	8.5	31.3	27.8	8.0	2.4	1.4	.9	.0	.0	81.3	
	TOT %	1.0	8.5	32.5	30.0	8.3	2.8	1.4	.9	.0	.0	85.4	
	TOT OBS												144
	TOT PCT	1.6	10.1	38.2	35.8	9.4	2.8	1.4	.9	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.7	.0	.0	.0	.0	.0		.7	
	TOT %	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.7	.0	.0	.0	.0	.0	.0	.0		.7	
	11-21	.0	.7	.0	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
5<10	0-3	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	1.4	
	4-10	.5	.2	.7	.7	.7	.0	.0	.0	.0		2.8	
	11-21	.0	.0	3.6	3.6	.3	.0	.0	.0	.0		7.6	
	22+	.0	.0	.7	.0	.0	.0	.0	.0	.0		.7	
	TOT %	.5	.2	5.7	5.0	1.0	.0	.0	.0	.0	.0	12.5	
10+	0-3	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	1.4	
	4-10	.5	5.6	16.5	6.9	3.5	1.6	1.4	.9	.0		36.8	
	11-21	.5	2.3	14.4	17.7	4.9	1.2	.0	.0	.0		41.0	
	22+	.0	.0	1.6	4.7	.0	.0	.0	.0	.0		6.3	
	TOT %	1.0	8.5	32.5	30.0	8.3	2.8	1.4	.9	.0	.0	85.4	
	TOT OBS												144
	TOT PCT	1.6	10.1	38.2	35.8	9.4	2.8	1.4	.9	.0	.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.6	3.6	21.4	14.3	3.6	.0	.0	.0	46.4	53.6	28
06&09	.0	.0	3.3	.0	26.7	6.7	3.3	.0	.0	.0	40.0	60.0	30
12&15	2.6	.0	.0	5.3	21.1	7.9	2.6	.0	.0	.0	39.5	60.5	38
18&21	.0	.0	.0	12.8	23.1	5.1	.0	.0	.0	.0	41.0	59.0	39
TOT	1	0	2	8	31	11	3	0	0	0	56	79	135
PCT	.7	.0	1.5	5.9	23.0	8.1	2.2	.0	.0	.0	41.5	58.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	3.0	15.2	81.8	33
06&09	.0	.0	.0	.0	15.6	84.4	32
12&15	.0	.0	.0	2.4	9.5	88.1	42
18&21	.0	2.5	.0	.0	12.5	85.0	40
TOT	0	1	0	2	19	125	147
PCT	.0	.7	.0	1.4	12.9	85.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NM >4/8), BY HOUR

HOUR (GMT)	<150 <90YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.7	7.4	40.7	51.9	27
06&09	.0	3.3	3.3	36.7	60.0	30
12&15	2.7	2.7	10.8	29.7	59.5	37
18&21	.0	2.6	13.2	28.9	57.9	38
TOT	1	4	12	44	76	132
PCT	.8	3.0	9.1	33.3	57.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	1.3	.0	.0	2	1.3
80/84	.0	.0	.0	2.0	2.6	2.6	4.6	.7	19	12.6
75/79	.0	.0	.0	1.3	6.6	18.5	29.1	11.3	101	66.9
70/74	.0	.0	.0	.0	4.0	4.0	6.6	4.6	29	19.2
TOTAL	0	0	0	3	20	40	61	25	151	100.0
PCT	.0	.0	.0	3.3	13.2	26.5	40.4	16.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0
.0	3.0	7.9	1.0	.7	.0	.0	.0	.0	.0
1.5	6.6	26.8	25.0	3.8	1.0	1.3	.8	.0	.0
.0	.2	4.0	7.1	6.8	1.2	.0	.0	.0	.0
1.5	11.1	38.7	33.1	11.3	2.2	1.3	.8	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	87	84	79	74	73	73	79.1	43
06&09	81	80	80	76	71	71	71	76.2	38
12&15	81	80	79	76	73	73	73	75.9	49
18&21	83	82	79	76	73	73	73	76.4	42
TOT	88	87	82	77	73	71	71	76.9	172

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	11.4	20.0	25.7	34.3	8.6	75	35
06&09	.0	.0	11.1	19.4	50.0	19.4	83	36
12&15	.0	.0	7.0	27.9	46.5	18.6	82	43
18&21	.0	2.5	15.0	32.5	30.0	20.0	80	40
TOT	0	5	20	41	62	26	80	154

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	1.6	2	.0	1.6
7/8	.0	.0	.0	.8	.0	1	.0	.8
6	.0	.0	.0	.8	.0	1	.0	.8
5	.0	.0	.8	.8	.0	2	.0	1.6
4	.0	.0	.8	.0	.0	1	.0	.8
3	.0	.0	.0	1.6	.0	2	.0	1.6
2	.0	.0	1.6	1.6	.0	4	.0	3.2
1	.0	1.6	2.4	.8	.0	6	.0	4.8
0	.0	2.4	6.4	.8	.0	12	.0	9.6
-1	.0	4.0	9.6	.8	.0	18	.0	14.4
-2	.0	8.8	11.2	.8	.0	26	.0	20.8
-3	.0	8.0	4.0	.8	.0	16	.0	12.8
-4	.0	8.0	2.4	.0	.0	13	.0	10.4
-5	.0	9.6	2.4	.0	.0	15	.0	12.0
-6	.0	1.6	.8	.0	.0	3	.0	2.4
-7/-8	.8	1.6	.0	.0	.0	3	.0	2.4
TOTAL	1	57	53	12	2	125	0	125
PCT	.8	45.6	42.4	9.6	1.6	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.8	.0	.0	.0	1.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.8	1.0	.0	.0	.0	8.8
3-4	.0	.0	2.3	.0	.0	.0	2.3
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.8	4.3	.0	.0	.0	12.1	

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.0	.0	.0	.0	.0	2.0
1-2	.0	5.8	.0	.0	.0	.0	5.8
3-4	.0	7.3	7.3	.0	.0	.0	14.6
5-6	.0	2.6	5.6	.8	.0	.0	8.3
7	.0	.0	2.5	.0	.0	.0	2.5
8-9	.0	.0	3.5	1.0	.0	.0	4.5
10-11	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.8	.0	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	16.2	18.9	3.3	.0	.0	39.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	1.0	3.5	1.0	.0	.0	.0	5.6
3-4	.0	3.0	4.8	.0	.0	.0	7.8
5-6	.0	2.0	7.8	1.3	.0	.0	11.1
7	.0	.0	3.5	3.0	.0	.0	6.6
8-9	.0	.0	1.5	.0	.0	.0	1.5
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	1.0	.0	.0	.0	1.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.8	19.7	4.8	.0	.0	34.3

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TABLE 18 (CONT) 19.1S 169.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	1.8	1.0	.0	.0	.0	2.8
3-4	.0	1.8	.0	.0	.0	.0	1.8
5-6	.0	.0	2.8	.0	.0	.0	2.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	3.8	.0	.0	.0	8.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	1.0	.0	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	.0	.0	.0	.0	2.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.0	6.0	.0	.0	.0	.0	8.0	
1-2	1.0	19.0	3.0	.0	.0	.0	23.0	
3-4	.0	13.0	15.0	.0	.0	.0	28.0	
5-6	.0	4.0	17.0	2.0	.0	.0	23.0	
7	.0	.0	6.0	3.0	.0	.0	9.0	
8-9	.0	.0	5.0	1.0	.0	.0	6.0	
10-11	.0	.0	.0	1.0	.0	.0	1.0	
12	.0	.0	1.0	.0	.0	.0	1.0	
13-16	.0	.0	.0	1.0	.0	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.0	42.0	47.0	8.0	.0	.0	100.0	100

PERIOD: (OVER-ALL) 1949-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	2.5	10.0	9.2	1.7	2.5	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
6-7	.0	.0	5.0	6.7	5.0	5.8	4.2	.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	7
8-9	.0	.8	.8	4.2	5.0	5.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
10-11	.0	.0	.8	.0	5.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
12-13	.0	.0	.0	.8	3.3	1.7	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
>13	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDET	2.5	.8	1.7	.8	2.5	.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
TOTAL	4	5	22	26	27	20	10	2	3	1	0	0	0	0	0	0	0	0	0	120	6
PCT	3.3	4.2	18.3	21.7	22.5	16.7	8.3	1.7	2.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1869-1977

AREA 0015 NIUE ISLAND
19.0S 169.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	22.9	.0	.0	.0	.0	.0	.0	22.9	.0	11.4	.0	.0	.0		.0	65.7
NE	17.4	8.7	2.2	.0	.0	.0	.0	28.3	.0	.0	.0	.0	.0		.0	71.7
E	2.0	1.5	8.0	.0	.0	.0	.0	11.2	4.0	.0	.0	.0	2.0		.0	82.5
SE	2.1	4.8	3.7	.0	.0	.0	.0	10.7	2.1	.0	.0	.0	.0		.0	87.2
S	6.9	6.9	.0	.0	.0	.0	.0	13.8	.0	.0	.0	.0	.0		.0	86.2
SW	19.0	.0	.0	.0	.0	.0	.0	19.0	.0	.0	.0	.0	.0		.0	81.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	5.5	3.4	4.1	.0	.0	.0	.0	13.1	2.1	.7	.0	.0	.7		.0	83.4
TOT OBS:	145															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	4.4	.0	4.4	.0	.0	.0	.0	8.9	.0	.0	.0	.0	.0		.0	91.1
06&09	3.1	3.1	3.1	.0	.0	.0	.0	9.4	3.1	.0	.0	.0	.0		.0	87.5
12&15	6.9	.0	10.3	.0	.0	.0	.0	17.2	3.4	.0	.0	.0	.0		.0	79.3
18&21	7.3	9.8	.0	.0	.0	.0	.0	17.1	2.4	2.4	.0	.0	2.4		.0	75.6
TOT PCT	5.4	3.4	4.1	.0	.0	.0	.0	12.9	2.0	.7	.0	.0	.7		.0	83.7
TOT OBS:	147															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	1.8	3.4	.0	.0	.0		5.2	13.4	5.7	.0	5.6	.0	.0	.0	8.6	16.7
NE	.6	4.0	4.2	.0	.0	.0		8.8	11.1	10.4	.0	8.3	.0	5.6	.0	11.2	16.7
E	.0	12.9	21.0	1.5	.9	.0		36.3	13.6	43.4	62.5	29.2	50.0	32.4	60.0	30.9	16.7
SE	2.2	5.5	21.4	2.1	.3	.0		31.5	13.4	27.8	25.0	29.2	50.0	45.4	40.0	28.9	16.7
S	.7	4.2	4.6	.0	.0	.0		9.5	10.4	2.8	12.5	13.9	.0	13.0	.0	11.8	33.3
SW	.0	3.1	.6	.0	.0	.0		3.7	8.5	4.2	.0	8.3	.0	3.7	.0	.0	.0
W	.0	.9	.6	.0	.0	.0		1.5	10.6	1.9	.0	.0	.0	.0	.0	3.9	.0
NW	.0	.3	1.3	.6	.0	.0		2.2	19.6	1.9	.0	5.6	.0	.0	.0	2.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	1.9	.0	.0	.0	.0	.0	2.6	.0
TOT OBS	8	55	96	7	2	0	168		12.7	53	4	36	2	27	5	38	3
TOT PCT	4.8	32.7	57.1	4.2	1.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.0	3.7	1.5	.0	.0		5.2	13.4	5.3	5.3	.0	9.1
NE	1.0	7.0	.7	.0	.0		8.8	11.1	9.6	7.9	4.7	11.6
E	5.5	19.3	9.7	1.3	.4		36.3	13.6	44.7	30.3	36.7	29.9
SE	5.4	16.1	8.9	1.0	.1		31.5	13.4	27.6	30.3	44.5	28.0
S	2.4	6.0	1.2	.0	.0		9.5	10.4	3.5	13.2	10.9	13.4
SW	1.2	2.5	.0	.0	.0		3.7	8.5	3.9	7.9	3.1	.0
W	.0	1.5	.0	.0	.0		1.5	10.6	1.8	.0	.0	3.7
NW	.0	.4	1.8	.0	.0		2.2	19.6	1.8	5.3	.0	1.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	1.8	.0	.0	2.4
TOT OBS	28	95	40	4	1	168		12.7	57	38	32	41
TOT PCT	16.7	56.5	23.8	2.4	.6		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1869-1977

AREA 0015 NIUE ISLAND
19.0S 169.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	1.8	33.3	56.1	7.0	.0	.0	12.8	100.0	57
06&09	.0	13.2	44.7	34.2	5.3	2.6	.0	10.9	100.0	38
12&15	.0	.0	25.0	71.9	.0	3.1	.0	14.4	100.0	32
18&21	2.4	.0	26.8	68.3	2.4	.0	.0	12.9	100.0	41
TOT	2	6	55	96	7	2	0	12.7		168
PCT	1.2	3.6	32.7	57.1	4.2	1.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.8	1.5	1.3		6.1
NE	.2	1.9	2.8	3.0		6.0
E	4.2	7.8	17.6	4.0		5.2
SE	7.4	4.2	13.8	7.8		5.1
S	1.7	3.0	5.5	1.7		5.1
SW	1.7	.0	1.9	.0		3.9
W	.8	1.3	.0	.0		2.6
NW	.0	.4	2.8	.0		4.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.8	.0	.0		3.0
TOT OBS	19	24	54	21	118	5.1
TOT PCT	16.1	20.3	45.8	17.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.9	.8	.0	.0	.0	.0	.8	
NE	.0	.0	.8	.8	1.3	.0	.0	.0	.0	.0	4.9	
E	.0	.0	.0	.8	6.6	.8	1.3	.0	.0	.0	24.2	
SE	.0	.0	.8	1.7	8.9	1.1	.4	.0	.0	.0	20.3	
S	.0	.0	.8	.8	1.5	1.5	.0	.0	.0	.0	7.2	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
NW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	3.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
TOT OBS	0	0	3	5	24	5	2	0	0	0	79	118
TOT PCT	.0	.0	2.5	4.2	20.3	4.2	1.7	.0	.0	.0	66.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >2000	5.0	5.8	5.8	5.8	5.8	5.8	5.8	5.8
= OR >1000	21.7	24.2	25.0	25.8	25.8	25.8	25.8	25.8
= OR >600	24.2	27.5	29.2	30.0	30.0	30.0	30.0	30.0
= OR >300	25.8	30.0	31.7	32.5	32.5	32.5	32.5	32.5
= OR >150	25.8	30.0	31.7	32.5	32.5	32.5	32.5	32.5
= OR > 0	25.8	30.0	31.7	32.5	32.5	32.5	32.5	32.5
TOTAL	31	36	38	39	39	39	39	39

TOTAL NUMBER OF OBS: 120 PCT FREQ NH <5/8: 67.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.0	14.8	15.6	20.7	9.6	11.1	9.6	5.9	9.6	.0	135

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1869-1977

AREA 0015 NIUE ISLAND
19.0S 169.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
2<5	PCP	1.0	.3	2.9	.3	.0	.0	.0	.0	.0	.0	4.8	
	NO PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	1.0	.3	3.6	.3	.0	.0	.0	.0	.0	.0	5.5	
5<10	PCP	.0	.7	.0	1.4	.7	.7	.0	.0	.0	.0	3.4	
	NO PCP	.7	.0	3.4	.7	.7	.0	.0	.0	.0	.0	5.5	
	TOT %	.7	.7	3.4	2.1	1.4	.7	.0	.0	.0	.0	9.0	
10+	PCP	.3	1.2	1.0	.9	.7	.0	.0	.0	.0	.0	4.1	
	NO PCP	4.0	5.7	26.4	28.1	7.9	2.9	1.7	2.6	.0	1.4	80.7	
	TOT %	4.3	6.9	27.4	29.0	8.6	2.9	1.7	2.6	.0	1.4	84.8	
	TOT OBS												145
	TOT PCT	6.0	7.9	34.5	32.2	10.0	3.6	1.7	2.6	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.7	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.7	.0	.0	.0	.0	.0	.0		.7	
	11-21	1.0	.3	.7	.0	.0	.0	.0	.0	.0		2.1	
	22+	.0	.0	2.2	.5	.0	.0	.0	.0	.0		2.8	
	TOT %	1.0	.3	3.6	.5	.0	.0	.0	.0	.0	.0	5.5	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.7	.7	1.4	.0	.7	.7	.0	.0	.0		4.1	
	11-21	.0	.0	2.1	2.1	.7	.0	.0	.0	.0		4.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	.7	3.4	2.1	1.4	.7	.0	.0	.0	.0	9.0	
10+	0-3	.0	.0	.0	2.4	.3	.0	.0	.0	.0	1.4	4.1	
	4-10	1.4	3.1	9.0	4.1	3.6	2.2	1.0	.3	.0		24.8	
	11-21	2.9	3.8	17.9	20.9	4.7	.7	.7	1.6	.0		53.1	
	22+	.0	.0	.5	1.6	.0	.0	.0	.7	.0		2.8	
	TOT %	4.3	6.9	27.4	29.0	8.6	2.9	1.7	2.6	.0	1.4	84.8	
	TOT OBS												145
	TOT PCT	6.0	7.9	34.5	32.2	10.0	3.6	1.7	2.6	.0	1.4	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1869-1977

AREA 0015 NIUE ISLAND
19.0S 169.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	.0	10.5	2.6	.0	.0	.0	.0	13.2	86.8	38
06&09	.0	.0	3.6	7.1	25.0	3.6	.0	.0	.0	.0	39.3	60.7	28
12&15	.0	.0	.0	14.3	9.5	.0	4.8	.0	.0	.0	28.6	71.4	21
18&21	.0	.0	5.3	.0	28.9	7.9	2.6	.0	.0	.0	44.7	55.3	38
TOT	0	0	3	5	24	5	2	0	0	0	39	86	125
PCT	.0	.0	2.4	4.0	19.2	4.0	1.6	.0	.0	.0	31.2	68.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	4.4	11.1	84.4	45
06&09	.0	.0	.0	6.3	3.1	90.6	32
12&15	.0	.0	.0	6.9	10.3	82.8	29
18&21	.0	.0	2.4	4.9	9.8	82.9	41
TOT	0	0	1	8	13	125	147
PCT	.0	.0	.7	5.4	8.8	85.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	5.7	14.3	80.0	35
06&09	.0	3.7	18.5	25.9	55.6	27
12&15	.0	.0	14.3	14.3	71.4	21
18&21	.0	5.4	8.1	37.8	54.1	37
TOT	0	3	13	29	78	120
PCT	.0	2.5	10.8	24.2	65.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.7	.0	1	.7
85/89	.0	.0	.0	.0	.7	2.2	.0	.7	5	3.6
80/84	.0	.0	.0	.0	2.9	15.2	10.9	2.9	44	31.9
75/79	.0	.0	.0	.7	5.1	22.5	17.4	10.1	77	55.8
70/74	.0	.0	.0	.0	.0	2.9	2.2	2.9	11	8.0
TOTAL	0	0	0	1	12	59	43	23	138	100.0
PCT	.0	.0	.0	.7	8.7	42.8	31.2	16.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
.7	.9	2.0	.0	.0	.0	.0	.0	.0	.0
2.7	4.2	13.2	6.3	2.4	.0	.7	1.6	.0	.7
2.5	1.3	17.8	20.8	7.4	3.8	1.1	1.1	.0	.0
.0	.0	1.6	4.9	.7	.7	.0	.0	.0	.0
6.0	7.1	34.6	32.1	10.5	4.5	1.8	2.7	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	86	81	74	71	71	80.6	58
06&09	82	81	81	79	73	73	73	78.2	38
12&15	81	80	80	77	74	74	74	76.7	32
18&21	90	89	82	79	73	64	64	78.4	41
TOT	90	89	84	79	74	71	64	78.8	169

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	18.6	46.5	23.3	11.6	77	43
06&09	.0	.0	8.3	44.4	30.6	16.7	80	36
12&15	.0	4.2	4.2	54.2	20.8	16.7	79	24
18&21	.0	.0	2.8	27.8	47.2	22.2	84	36
TOT	0	1	13	59	43	23	80	139

NOVEMBER

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1869-1977

TABLE 17

AREA 0015 NIUE ISLAND
19.05 169.6W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.8	1	.0	.8
6	.0	.0	.0	.0	.0	.0	.8	.0	1	.0	.8
5	.0	.0	.0	.0	.0	1.6	.0	.0	2	.0	1.6
4	.0	.0	.0	.0	.8	.8	.8	.0	3	.0	2.4
3	.0	.0	.0	.0	.0	1.6	.8	.0	3	.0	2.4
2	.0	.0	.0	.0	1.6	2.4	.8	.0	6	.0	4.8
1	.0	.0	.0	.8	4.0	4.8	.0	.0	12	.0	9.6
0	.0	.0	.0	.0	11.2	7.2	.0	.0	23	.0	18.4
-1	.0	.0	.0	1.6	6.4	4.0	.0	.0	15	.0	12.0
-2	.0	.0	.0	6.4	7.2	.8	.0	.0	18	.0	14.4
-3	.0	.0	.0	3.2	7.2	.8	.0	.0	14	.0	11.2
-4	.0	.0	.0	8.0	3.2	.0	.0	.0	14	.0	11.2
-5	.0	.0	.0	4.0	2.4	.0	.0	.0	8	.0	6.4
-6	.0	.0	.8	.0	.8	.0	.0	.0	2	.0	1.6
-7/-8	.0	.0	.0	.0	.8	.0	.0	.0	1	.0	.8
-9/-10	.8	.0	.0	.8	.0	.0	.0	.0	2	.0	1.6
TOTAL	1		1		57		4			0	125
		0		31		30		1	125		
PCT	.8	.0	.8	24.8	45.6	24.0	3.2	.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	2.5	3.4	.0	.0	.0	5.9
5-6	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	5.2	.0	.0	.0	9.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.2	.0	.0	.0	1.2
3-4	.0	2.5	.0	.0	.0	.0	2.5
5-6	.0	.0	3.7	.0	.0	.0	3.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	4.9	.0	.0	.0	7.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.7	.0	.0	.0	.0	3.7
1-2	.0	5.9	2.2	.0	.0	.0	8.0
3-4	.0	2.2	4.6	.0	.0	.0	6.8
5-6	.0	.0	5.6	.0	.0	.0	5.6
7	.0	.0	.9	1.2	.0	.0	2.2
8-9	.0	.0	1.2	.0	.9	.0	2.2
10-11	.0	.0	1.2	.9	.0	.0	2.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.7	15.7	3.1	.9	.0	31.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	2.5	1.5	2.8	.0	.0	.0	6.8
3-4	.0	.3	9.6	.0	.0	.0	9.9
5-6	.0	.0	6.2	.0	.0	.0	6.2
7	.0	.0	10.2	2.5	.0	.0	12.7
8-9	.0	.0	.0	.0	.3	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	1.9	28.7	3.1	.3	.0	36.4

PERIOD: (OVER-ALL) 1950-1977

NOVEMBER

TABLE 18 (CONT)

AREA 0015 NIUE ISLAND
19.0S 169.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.9	5.6	.0	.0	.0	6.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	5.6	.0	.0	.0	7.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	1.2	.0	.0	.0	2.5
3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	1.2	.0	.0	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	1.2	.0	.0	.0	4.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.2	.0	.0	.0	1.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	2.8	.0	.0	.0	2.8	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	2.8	.0	.0	.0	2.8	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	3.7	.0	.0	.0	.0	3.7	
1-2	2.5	11.1	7.4	.0	.0	.0	21.0	
3-4	.0	8.6	25.9	.0	.0	.0	34.6	
5-6	.0	.0	18.5	.0	.0	.0	18.5	
7	.0	.0	11.1	3.7	.0	.0	14.8	
8-9	.0	1.2	1.2	.0	1.2	.0	3.7	
10-11	.0	.0	1.2	1.2	.0	.0	2.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.2	.0	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.5	24.7	65.4	6.2	1.2	.0	100.0	81

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.7	19.3	5.5	7.3	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	4
6-7	.0	.9	2.8	4.6	8.3	.9	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
8-9	.0	.0	1.8	2.8	3.7	.9	2.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
10-11	.0	.0	.0	.9	4.6	1.8	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
12-13	.0	.0	.0	.0	2.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.0	.9	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDET	.0	.0	4.6	3.7	1.8	4.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	6
TOTAL	0	5	31	19	32	13	6	0	3	0	0	0	0	0	0	0	0	0	0	109	6
PCT	.0	4.6	28.4	17.4	29.4	11.9	5.5	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1955-1977
(OVER-ALL) 1872-1977

AREA 0015 NIUE ISLAND
19.1S 166.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	4.8	.0	.0	.0	.0	.0	4.8	11.3	.0	.0	.0	.0		.0	83.9
NE	37.1	2.9	.0	.0	.0	.0	.0	40.0	2.9	.0	.0	.0	.0		.0	57.1
E	6.4	2.7	3.6	.0	.0	.0	.0	12.7	3.6	.0	.0	.0	.0		.0	83.6
SE	.0	8.4	.0	.0	.0	.0	.0	8.4	3.7	.0	3.7	.0	.0		.0	84.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	21.1	10.5	.0	.0	.0	.0	.0	31.6	10.5	.0	.0	.0	.0		.0	57.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	33.3	.0	.0	.0	.0	.0	.0	33.3	33.3	.0	.0	.0	.0		.0	33.3
TOT PCT	7.6	4.8	1.0	.0	.0	.0	.0	13.3	5.7	.0	1.0	.0	.0		.0	80.0
TOT OBS:	105															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	10.0	6.7	.0	.0	.0	.0	.0	16.7	3.3	.0	3.3	.0	.0		.0	76.7
06&09	10.0	.0	3.3	.0	.0	.0	.0	13.3	6.7	.0	.0	.0	.0		.0	80.0
12&15	8.3	.0	.0	.0	.0	.0	.0	8.3	8.3	.0	.0	.0	.0		.0	83.3
18&21	.0	13.6	.0	.0	.0	.0	.0	13.6	4.5	.0	.0	.0	.0		.0	81.8
TOT PCT	7.5	4.7	.9	.0	.0	.0	.0	13.2	5.7	.0	.9	.0	.0		.0	80.2
TOT OBS:	106															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	5.3	4.7	3.2	.0	.0		13.1	14.9	18.8	14.3	4.5	12.5	6.5	43.8	13.1	100.0
NE	.0	2.8	4.4	.2	.0	.0		7.4	14.2	8.9	.0	9.1	9.4	8.3	.0	6.0	.0
E	.0	10.2	16.5	1.5	.0	.0		28.2	13.3	22.3	.0	23.9	34.4	45.4	37.5	25.0	.0
SE	1.7	8.3	13.6	1.9	.0	.0		25.4	13.0	18.8	42.9	35.2	21.9	17.6	12.5	33.3	.0
S	.0	6.1	3.2	.0	.0	.0		9.3	10.8	16.1	14.3	8.0	9.4	3.7	.0	9.5	.0
SW	.0	.8	.0	.0	.0	.0		.8	8.7	.0	.0	1.1	.0	.0	.0	3.6	.0
W	.0	3.4	.0	.0	.0	.0		3.4	7.0	.0	14.3	.0	12.5	3.7	.0	4.8	.0
NW	.8	3.0	3.4	1.7	.8	.0		9.7	15.8	15.2	14.3	13.6	.0	7.4	6.3	4.8	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	.0	.0	4.5	.0	7.4	.0	.0	.0
TOT OBS	6	47	54	10	1	0	118		12.9	28	7	22	8	27	4	21	1
TOT PCT	5.1	39.8	45.8	8.5	.8	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	5.5	2.8	1.7	.0		13.1	14.9	17.9	6.7	11.3	17.0
NE	1.9	1.9	3.6	.0	.0		7.4	14.2	7.1	9.2	7.3	5.7
E	3.0	17.8	7.4	.0	.0		28.2	13.3	17.9	26.7	44.4	23.9
SE	3.2	16.3	5.1	.8	.0		25.4	13.0	23.6	31.7	16.9	31.8
S	2.3	4.7	2.3	.0	.0		9.3	10.8	15.7	8.3	3.2	9.1
SW	.0	.8	.0	.0	.0		.8	8.7	.0	.8	.0	3.4
W	1.7	1.7	.0	.0	.0		3.4	7.0	2.9	3.3	3.2	4.5
NW	1.7	3.8	3.4	.8	.0		9.7	15.8	15.0	10.0	7.3	4.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	.0	3.3	6.5	.0
TOT OBS	23	62	29	4	0	118		12.9	35	30	31	22
TOT PCT	19.5	52.5	24.6	3.4	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1955-197?
(OVER-ALL) 1872-197?

AREA 0015 NIUE ISLAND
19.1S 169.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	8.6	34.3	45.7	8.6	2.9	.0	13.0	100.0	35
06&09	3.3	.0	30.0	60.0	6.7	.0	.0	13.5	100.0	30
12&15	6.5	.0	48.4	38.7	6.5	.0	.0	11.3	100.0	31
18&21	.0	.0	50.0	36.4	13.6	.0	.0	14.2	100.0	22
TOT	3	3	47	54	10	1	0	12.9		118
PCT	2.5	2.5	39.8	45.8	8.5	.8	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.8	2.9	4.9	6.5		6.0
NE	2.1	.3	2.1	3.9		5.6
E	3.1	4.7	12.8	4.2		5.4
SE	4.7	9.4	4.9	5.2		4.6
S	4.7	3.1	2.1	.8		3.0
SW	.0	.5	.0	.3		5.3
W	.0	1.0	1.0	.0		5.0
NW	1.3	.0	2.3	6.3		6.8
VAR	.0	.0	.0	.0		.0
CALM	.0	1.0	1.0	1.0		6.3
TOT OBS	17	22	30	27	96	5.2
TOT PCT	17.7	22.9	31.3	28.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	6.0	.0	.0	.0	.0	.0	10.2	
.0	.0	.0	3.1	1.0	.0	.0	.0	.0	.0	4.2	
.0	.0	.8	3.1	1.8	2.9	1.0	.0	.0	.0	15.1	
.0	.0	.3	3.1	2.3	.3	.0	.0	.0	.0	18.2	
.0	.0	.0	1.0	.0	.8	.0	.0	.0	.0	8.9	
.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.5	
.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0	
.0	.0	.0	.0	4.4	1.0	.0	.0	.0	.0	4.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	1.0	
0	0	1	11	17	5	1	0	0	0	61	96
.0	.0	1.0	11.5	17.7	5.2	1.0	.0	.0	.0	63.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >2000	4.2	5.2	6.3	6.3	6.3	6.3	6.3	6.3
* OR >1000	20.8	22.9	24.0	24.0	24.0	24.0	24.0	24.0
* OR >600	26.0	34.4	35.4	35.4	35.4	35.4	35.4	35.4
* OR >300	26.0	35.4	36.5	36.5	36.5	36.5	36.5	36.5
* OR >150	26.0	35.4	36.5	36.5	36.5	36.5	36.5	36.5
* OR > 0	26.0	35.4	36.5	36.5	36.5	36.5	36.5	36.5
TOTAL	25	34	35	35	35	35	35	35

TOTAL NUMBER OF OBS: 96 PCT FREQ NH <5/8: 63.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.0	10.0	16.0	22.0	12.0	8.0	10.0	7.0	11.0	.0	100

DECEMBER

PERIOD: (PRIMARY) 1955-1977
(OVER-ALL) 1872-1977

AREA 0015 NIUE ISLAND
19.1S 166.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
2<5	PCP	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
	TOT %	.0	.0	.7	.2	.0	.0	.0	1.0	.0	.0	1.9	
5<10	PCP	.0	2.2	.7	1.9	.0	.0	.0	.0	.0	.0	4.8	
	NO PCP	1.0	1.4	3.6	3.1	4.1	.2	1.0	1.0	.0	.0	15.4	
	TOT %	1.0	3.6	4.3	5.0	4.1	.2	1.0	1.0	.0	.0	20.2	
10+	PCP	.0	1.0	1.9	.0	.0	.0	.0	2.9	.0	1.0	6.7	
	NO PCP	11.5	3.4	19.5	20.4	4.8	.5	2.9	4.3	.0	1.9	69.2	
	TOT %	11.5	4.3	21.4	20.4	4.8	.5	2.9	7.2	.0	2.9	76.0	
	TOT OBS												104
	TOT PCT	13.9	8.4	26.4	25.7	8.9	.7	3.8	9.1	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	1.4	.5	.0	.0	.0	.0	.0	.0	.0		1.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.9	.0		.9	
	11-21	.0	.0	1.7	.2	.0	.0	.0	.0	.0		1.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	1.7	.2	.0	.0	.0	.9	.0	.0	2.8	
5<10	0-3	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	
	4-10	.0	.0	.0	2.4	2.1	.2	.9	.9	.0		6.6	
	11-21	.9	3.5	3.5	1.4	1.9	.0	.0	.0	.0		11.3	
	22+	.0	.0	.7	.2	.0	.0	.0	.0	.0		.9	
	TOT %	.9	3.5	4.2	5.0	4.0	.2	.9	.9	.0	.0	19.8	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.9	.0	2.8	3.8	
	4-10	5.9	3.1	8.5	6.8	4.0	.5	2.8	1.4	.0		33.0	
	11-21	1.9	.9	11.6	11.3	1.7	.0	.0	1.9	.0		29.2	
	22+	3.5	.2	.9	1.9	.0	.0	.0	2.8	.0		9.4	
	TOT %	11.3	4.2	21.0	20.0	5.7	.5	2.8	7.1	.0	2.8	75.5	
	TOT OBS												106
	TOT PCT	13.7	8.3	26.9	25.2	9.7	.7	3.8	9.0	.0	2.8	100.0	

DECEMBER

PERIOD: (PRIMARY) 1955-1977
(OVER-ALL) 1872-1977

AREA 0015 NIUE ISLAND
19.1S 169.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	7.4	18.5	11.1	3.7	.0	.0	.0	40.7	59.3	27
06&09	.0	.0	.0	10.7	14.3	7.1	.0	.0	.0	.0	32.1	67.9	28
12&15	.0	.0	4.5	9.1	22.7	.0	.0	.0	.0	.0	36.4	63.6	22
18&21	.0	.0	.0	18.2	13.6	.0	.0	.0	.0	.0	31.8	68.2	22
TOT	0	0	1	11	17	5	1	0	0	0	35	64	99
PCT	.0	.0	1.0	11.1	17.2	5.1	1.0	.0	.0	.0	35.4	64.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	6.7	3.3	20.0	70.0	30
06&09	.0	.0	.0	3.4	27.6	69.0	29
12&15	.0	.0	.0	3.8	7.7	88.5	26
18&21	.0	.0	.0	.0	22.7	77.3	22
TOT	0	0	2	3	21	81	107
PCT	.0	.0	1.9	2.8	19.6	75.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <5 OVC	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	18.5	29.6	51.9	27
06&09	.0	.0	14.8	22.2	63.0	27
12&15	.0	4.5	13.6	22.7	63.6	22
18&21	.0	.0	20.0	15.0	65.0	20
TOT	0	1	16	22	58	96
PCT	.0	1.0	16.7	22.9	60.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	1.0	.0	1.0	1.0	.0	3	3.0
80/84	.0	.0	.0	.0	4.0	10.9	17.8	10.9	44	43.6
75/79	.0	.0	.0	.0	2.0	21.8	16.8	8.9	50	49.5
70/74	.0	.0	.0	.0	1.0	.0	1.0	2.0	4	4.0
TOTAL	0	0	0	1	7	34	37	22	101	100.0
PCT	.0	.0	.0	1.0	6.9	33.7	36.6	21.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.0	.0	.0	.0	.0	2.0	.0	.0
10.1	1.5	12.6	7.4	2.5	.2	3.0	5.2	.0	1.0
4.2	4.5	12.4	17.8	5.7	.7	1.0	1.2	.0	2.0
.0	.2	.7	2.0	1.0	.0	.0	.0	.0	.0
14.4	6.2	26.7	27.2	9.2	1.0	4.0	8.4	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	87	86	81	76	74	74	81.0	35
06&09	83	82	82	79	76	70	70	78.8	29
12&15	82	81	81	79	75	71	71	78.6	30
18&21	83	82	82	78	76	72	72	78.4	23
TOT	88	86	83	79	76	70	70	79.3	117

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.7	11.1	18.5	51.9	14.8	80	27
06&09	.0	.0	7.1	35.7	32.1	25.0	82	28
12&15	.0	.0	.0	40.0	36.0	24.0	83	25
18&21	.0	.0	9.1	40.9	22.7	27.3	82	22
TOT	0	1	7	34	37	23	82	102

DECEMBER

PERIOD: (PRIMARY) 1955-1977
(OVER-ALL) 1872-1977

AREA 0015 NIUE ISLAND
19.1S 166.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	1.1	1	.0	1.1
5	.0	.0	.0	.0	1.1	1	.0	1.1
4	.0	.0	.0	1.1	1.1	2	.0	2.1
3	.0	.0	1.1	4.2	.0	5	.0	5.3
2	.0	.0	.0	8.4	.0	8	.0	8.4
1	.0	.0	.0	6.3	.0	6	.0	6.3
0	.0	.0	7.4	2.1	.0	9	.0	9.5
-1	.0	1.1	11.6	5.3	.0	17	1.1	16.8
-2	.0	3.2	9.5	2.1	.0	14	.0	14.7
-3	.0	4.2	12.6	1.1	.0	17	.0	17.9
-4	.0	3.2	6.3	.0	.0	9	.6	9.5
-5	.0	.0	1.1	.0	.0	1	.0	1.1
-6	.0	.0	1.1	.0	.0	1	.0	1.1
-7/-8	2.1	.0	1.1	.0	.0	3	.0	3.2
-9/-10	1.1	.0	.0	.0	.0	1	.0	1.1
TOTAL	3		49		3		1	94
		11		29		95		
PCT	3.2	11.6	51.5	30.5	3.3	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.4	.0	.0	.0	.0	2.4
1-2	.0	3.7	.0	.0	.0	.0	3.7
3-4	.0	.0	2.7	.0	.0	.0	2.7
5-6	.0	.0	1.4	2.4	.0	.0	3.7
7	.0	.0	1.0	2.7	.0	.0	3.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.1	5.1	5.1	.0	.0	16.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	1.4	1.4	.0	.0	.0	2.7
5-6	.0	.0	.0	.3	.0	.0	.3
7	.0	.0	4.4	.0	.0	.0	4.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	5.7	.3	.0	.0	9.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.0	.0	.0	.0	1.0
3-4	.0	4.7	2.7	.0	.0	.0	7.4
5-6	.0	2.7	6.8	.0	.0	.0	9.5
7	.0	.0	4.7	.0	.0	.0	4.7
8-9	.0	.0	1.0	1.4	.0	.0	2.4
10-11	.0	.0	1.0	1.0	.0	.0	2.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.4	17.2	2.4	.0	.0	27.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.7	3.0	.0	.0	.0	7.8
3-4	.0	3.4	3.0	.0	.0	.0	6.4
5-6	.0	1.4	2.7	.0	.0	.0	4.1
7	.0	.0	3.4	.0	.0	.0	3.4
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.3	.3	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.5	12.8	.3	.0	.0	22.6

PERIOD: (OVER-ALL) 1963-1977

DECEMBER

TABLE 18 (CONT)

AREA 0015 NIUE ISLAND
19.1S 166.7W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.4	2.7	.0	.0	.0	6.1
3-4	.0	.0	1.0	.0	.0	.0	1.0
5-6	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	5.1	.0	.0	.0	8.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.7	.0	.0	.0	.0	2.7
1-2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	.0	.0	.0	.0	4.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.4	.3	.0	.0	.0	.0	1.7	
1-2	.0	1.4	.0	.0	.0	.0	1.4	
3-4	.0	.0	1.4	.0	.0	.0	1.4	
5-6	.0	.0	1.4	.0	.0	.0	1.4	
7	.0	.0	.0	2.7	1.4	.0	4.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	1.7	2.7	2.7	1.4	.0	9.8	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.1	5.4	.0	.0	.0	.0	9.5	
1-2	.0	10.2	6.8	.0	.0	.0	23.0	
3-4	.0	9.5	12.2	.0	.0	.0	21.6	
5-6	.0	4.1	13.5	2.7	.0	.0	20.3	
7	.0	.0	13.5	5.4	1.4	.0	20.3	
8-9	.0	.0	1.4	1.4	.0	.0	2.7	
10-11	.0	.0	1.4	1.4	.0	.0	2.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	35.1	48.6	10.8	1.4	.0	100.0	74

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	4.6	4.6	2.3	2.3	3.4	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
6-7	.0	2.3	6.9	9.2	8.0	6.9	5.7	1.1	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	7
8-9	.0	2.3	1.1	.0	1.1	2.3	3.4	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
10-11	.0	.0	2.3	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
12-13	.0	.0	.0	.0	2.3	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	4	11
>13	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDET	1.1	.0	1.1	4.6	3.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
TOTAL	3	8	14	14	16	12	12	2	5	0	1	0	0	0	0	0	0	0	0	87	6
PCT	3.4	9.2	16.1	16.1	18.4	13.8	13.8	2.3	5.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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(OVER-ALL) 1868-1978

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.0	2.4	.0	.0	.0	.0	.0	6.4	4.2	1.3	.0	.0	.0		.0	87.9
NE	6.2	3.1	1.7	.0	.0	.0	.0	11.0	2.7	.7	.0	.0	.0		.0	85.6
E	2.0	3.4	1.1	.0	.0	.0	.0	6.6	3.9	.3	.0	.0	.5		.0	88.7
SE	2.9	3.7	1.0	.0	.0	.0	.0	7.6	3.4	.8	.3	.0	.0		.2	87.8
S	4.2	1.2	.5	.0	.0	.0	.0	5.9	3.5	.0	.0	.0	.5		.0	90.0
SW	5.1	5.2	.5	.0	.0	.0	.0	10.8	3.2	.0	.0	.0	.0		.0	86.0
W	4.2	2.2	.9	.0	.0	.0	.0	7.2	12.9	1.6	.0	.0	.0		.0	70.2
NW	8.8	1.6	.0	.0	.0	.0	.0	10.4	2.3	18.9	.0	.0	.0		.0	69.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.8	.0	.0	.0	.0	.0	.0	2.8	4.0	.0	.0	.0	.0		.0	88.3
TOT PCT	3.6	3.1	1.0	.0	.0	.0	.0	7.7	3.9	1.1	.1	.0	.2		.1	87.0
TOT OBS:	1407															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.8	2.8	1.1	.0	.0	.0	.0	6.7	3.5	.5	.3	.0	.2		.2	88.8
06&09	4.2	2.5	.8	.0	.0	.0	.0	7.5	3.5	2.0	.0	.0	.0		.0	87.0
12&15	4.1	3.5	1.6	.0	.0	.0	.0	9.2	2.4	2.6	.0	.0	.0		.0	86.0
18&21	3.6	4.2	.5	.0	.0	.0	.0	8.3	5.8	.2	.0	.0	.8		.0	85.0
TOT PCT	3.7	3.2	1.0	.0	.0	.0	.0	7.9	3.9	1.2	.1	.0	.3		.1	86.8
TOT OBS:	1445															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	3.5	2.2	.4	.1	.0		6.6	9.8	9.4	4.7	5.1	6.9	3.0	9.5	6.2	11.8
NE	.7	4.8	3.3	.1	*	.0		9.0	10.1	9.3	2.8	8.1	1.3	9.2	3.0	10.9	6.9
E	.7	10.4	15.3	2.0	.1	.0		28.5	12.8	27.2	15.6	25.6	41.0	33.0	32.2	27.9	13.9
SE	.9	9.6	17.8	4.0	.2	.0		32.5	14.0	31.0	41.1	36.4	31.3	32.0	35.5	31.0	18.1
S	.5	5.5	4.5	.3	.0	.0		10.7	10.3	10.2	21.8	10.2	4.7	11.0	17.6	11.6	2.8
SW	.1	2.2	1.4	.2	.0	.0		3.9	10.1	4.3	3.3	4.8	2.1	2.6	1.7	3.7	2.8
W	.1	1.6	.7	.1	.0	.0		2.5	9.1	2.0	6.1	2.4	7.3	1.9	.0	3.2	4.2
NW	.1	1.4	2.0	.2	.1	.0		3.8	11.7	4.1	4.7	6.0	2.6	3.4	.5	2.7	.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	2.0	.0	1.4	2.8	3.8	.0	2.9	5.6
TOT OBS							1684		12.2	485	54	319	38	347	50	375	16
TOT PCT	6.2	39.0	47.2	7.2	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	66.7

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	3.0	.9	.2	.1		6.6	9.8	8.9	5.7	3.8	6.5
NE	2.6	5.2	1.1	.1	*		9.0	10.1	9.1	7.5	8.5	11.1
E	4.6	16.8	6.3	.8	*		28.5	12.8	26.3	27.2	33.6	27.3
SE	3.4	17.8	10.1	1.2	*		32.5	14.0	32.4	35.7	32.4	30.5
S	2.6	6.2	1.8	.1	.0		10.7	10.3	10.4	9.9	11.2	11.4
SW	1.2	2.2	.5	.0	.0		3.9	10.1	4.2	4.5	2.5	4.0
W	.7	1.6	.2	.0	.0		2.5	9.1	2.6	2.5	1.6	3.3
NW	.6	2.3	.8	.1	.0		3.8	11.7	4.2	5.5	3.0	2.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	1.8	1.6	3.3	3.4
TOT OBS						1684		12.2	539	357	397	391
TOT PCT	20.6	55.1	21.8	2.4	.1		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1950-1978
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	4.2	38.1	47.1	7.8	.9	.0	12.5	100.0	539
06&09	1.6	3.0	38.7	49.6	8.6	.5	.0	12.6	100.0	357
12&15	3.3	4.3	42.1	46.0	3.7	.5	.0	11.3	100.0	397
18&21	3.4	2.7	38.9	46.3	8.6	.0	.0	12.3	100.0	391
TOT								12.2		1684
PCT	2.5	3.7	39.0	47.2	7.2	.5	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	1.6	2.3	1.5		5.0
NE	1.8	2.2	3.2	2.2		4.8
E	5.4	6.7	11.6	4.8		5.0
SE	4.4	9.7	12.6	5.7		4.9
S	2.4	2.7	4.0	2.0		4.9
SW	1.0	1.1	1.0	.6		4.3
W	.4	.7	1.1	.3		4.2
NW	.3	.4	1.5	1.7		5.5
VAR	.0	.0	.0	.0		.0
CALM	.8	.4	.8	.2		3.0
TOT OBS					1239	5.0
TOT PCT	17.6	25.5	37.9	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.5	1.0	.2	.2	.0	.0	.0	4.6	
NE	.0	.0	.1	1.3	1.2	.3	.1	*	.1	.0	6.2	
E	*	.0	.5	2.5	4.4	2.0	.5	.2	.0	.1	18.3	
SE	.1	.2	.6	3.3	4.7	3.1	.5	.3	.0	.2	19.4	
S	.0	.1	.3	.8	1.8	1.1	.3	.1	.0	.0	6.5	
SW	.0	*	.1	.1	.9	.1	*	.0	.0	.0	2.5	
W	.0	.1	.0	.4	.1	.3	.0	.0	.0	.0	1.7	
NW	.0	.0	.3	.2	1.1	.4	.0	.0	.1	.0	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.4	.1	.0	.0	.0	.0	1.6	
TOT OBS												1239
TOT PCT	.1	.3	1.9	9.3	15.4	7.5	1.6	.7	.2	.3	62.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
* OR >5000	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >3500	2.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	8.6	10.2	10.2	10.2	10.2	10.2	10.2	10.2
* OR >1000	21.5	25.1	25.5	25.6	25.6	25.6	25.6	25.6
* OR >600	28.0	33.7	34.6	34.7	34.8	34.8	34.8	34.8
* OR >300	28.8	35.3	36.5	36.6	36.7	36.7	36.7	36.7
* OR >150	28.8	35.5	36.8	36.9	37.0	37.0	37.0	37.0
* OR > 0	29.0	35.6	36.9	37.0	37.1	37.1	37.1	37.1

TOTAL NUMBER OF OBS: 1272 PCT FREQ NH <5/8: 62.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.2	11.4	17.2	19.3	11.0	10.1	9.4	7.4	10.9	.1	1342

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.2	.1	.5	.2	.1	.1	.1	.2	.0	.0	1.6	
	NO PCP	.1	.1	.2	.1	.0	.0	.0	.1	.0	.0	.7	
	TOT %	.3	.2	.7	.3	.1	.1	.1	.3	.0	.0	2.2	
5<10	PCP	.0	.4	.6	1.3	.2	.1	.0	.2	.0	.0	2.9	
	NO PCP	.7	.5	2.9	3.4	1.3	.1	.2	.4	.0	.1	9.5	
	TOT %	.7	.9	3.5	4.6	1.5	.2	.2	.6	.0	.1	12.4	
10+	PCP	.2	.5	.7	.7	.3	.1	.1	.2	.0	.1	3.0	
	NO PCP	5.3	7.8	23.2	26.8	8.7	3.2	2.1	2.7	.0	2.1	81.9	
	TOT %	5.6	8.3	23.9	27.5	8.9	3.4	2.2	3.0	.0	2.2	85.0	
	TOT OBS												1405
	TOT PCT	6.7	9.5	28.1	32.7	10.6	3.8	2.5	3.8	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	*	.0	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.0	.2	.1	.0	.1	.1	.0	.1	.0		.5	
	11-21	.3	.1	.5	.2	.1	.1	.1	.2	.0		1.4	
	22+	.1	.0	.2	.1	.0	.0	.0	*	.0		.4	
	TOT %	.3	.2	.8	.3	.1	.1	.1	.3	.0	.0	2.3	
5<10	0-3	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.5	
	4-10	.4	.2	.8	1.2	.7	.2	.1	.4	.0		3.9	
	11-21	.1	.7	2.4	2.5	.5	.1	.1	.2	.0		6.6	
	22+	.1	*	.2	.9	.1	.0	.0	*	.0		1.3	
	TOT %	.7	.9	3.5	4.6	1.5	.2	.2	.6	.0	.1	12.4	
10+	0-3	.5	.7	.4	.7	.3	.1	.0	.1	.0	2.2	4.9	
	4-10	3.2	4.8	9.1	7.3	4.4	1.8	1.6	1.1	.0		33.3	
	11-21	1.6	2.7	12.7	16.0	4.2	1.3	.6	1.5	.0		40.5	
	22+	.3	.1	1.7	3.4	.2	.2	.1	.3	.0		6.2	
	TOT %	5.6	8.3	23.9	27.5	9.0	3.4	2.2	3.0	.0	2.2	84.9	
	TOT OBS												1408
	TOT PCT	6.7	9.5	28.1	32.6	10.6	3.7	2.5	3.9	.0	2.3	100.0	

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PERIOD: (PRIMARY) 1950-1978
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.3	1.3	6.0	13.0	7.8	1.8	.9	.3	.2	31.7	68.3	369
06&09	.0	.8	2.4	10.1	16.1	8.3	1.3	.4	.0	.5	40.0	60.0	289
12&15	.5	.0	1.8	10.7	13.8	6.0	1.4	.9	.4	.3	35.6	64.4	294
18&21	.0	.3	1.8	10.1	16.7	6.9	1.4	.9	.0	.0	38.1	61.9	354
TOT													1306
PCT	.1	.3	1.8	9.0	15.0	7.3	1.5	.7	.2	.2	36.2	63.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.8	2.8	12.2	84.3	415
06&09	.0	.0	.0	2.7	14.0	83.3	311
12&15	.0	.0	.0	1.7	12.4	85.9	344
18&21	.0	.5	.2	1.8	11.5	86.0	376
TOT							1446
PCT	.0	.1	.3	2.3	12.4	84.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.6	9.6	24.1	66.2	363
06&09	.0	3.3	15.2	26.3	58.5	283
12&15	.5	2.3	14.3	22.9	62.8	285
18&21	.0	2.7	13.7	26.5	59.8	341
TOT						1272
PCT	.1	2.5	12.9	25.1	62.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.1	.1	.1	.0		.4
85/89	.0	.0	.0	.3	.6	1.0	.4	.1		2.5
80/84	.0	.0	.0	.4	3.3	13.1	14.8	2.5		34.1
75/79	.0	.0	.1	.8	5.0	15.0	18.6	9.9		49.5
70/74	.0	.0	.0	.7	3.4	3.6	3.0	2.7		13.5
65/69	.0	.0	.0	.0	.1	.0	.0	.0		.1
TOTAL									1416	100.0
PCT	.0	.0	.1	2.3	12.5	32.9	37.0	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.1	.1	.0	.0	.1	.0	.0	.1
.3	.6	.8	.3	.1	*	.1	.3	.0	.1
3.6	4.4	10.4	8.2	2.0	1.0	1.5	2.0	.0	1.0
2.9	4.1	15.3	17.5	4.5	2.1	.8	1.5	.0	.8
.1	.1	2.1	6.1	3.9	.7	.1	.2	.0	.1
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
6.8	9.2	28.7	32.3	10.5	3.9	2.5	4.0	.0	2.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	93	88	85	80	75	73	69	79.9	546
06&09	84	81	81	78	74	73	70	77.7	360
12&15	84	81	80	78	74	73	69	77.3	405
18&21	90	81	81	78	74	72	64	77.6	399
TOT	93	87	83	78	74	72	64	78.3	1710

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.2	19.3	37.9	27.5	10.0	77	407
06&09	.0	1.2	9.6	35.0	38.3	15.9	81	337
12&15	.0	.6	8.5	27.5	43.1	20.2	82	343
18&21	.0	2.0	10.7	30.1	39.6	17.5	81	368
TOT	0	35	179	471	540	230	80	1455

PERIOD: (PRIMARY) 1950-1978
(OVER-ALL) 1868-1978

AREA 0015 NIUE ISLAND
19.1S 169.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
7/8	.0	.0	.0	.0	.0	.2	.2	.2	.1	8	.0	.6
6	.0	.0	.0	.0	.2	.1	.1	.0	.0	5	.0	.4
5	.0	.0	.0	.0	.2	.3	.3	.1	.0	12	.0	.9
4	.0	.0	.0	.0	.4	.3	.3	.2	.0	15	.0	1.2
3	.0	.0	.0	.1	.3	1.6	.5	.0	.0	32	.0	2.6
2	.0	.0	.0	.2	.4	2.4	.4	.0	.0	43	.0	3.3
1	.0	.0	.0	.4	2.7	3.7	.1	.0	.0	88	.0	6.9
0	.0	.0	.2	1.8	4.7	4.9	.0	.0	.0	149	.0	11.6
-1	.0	.0	.1	2.5	8.8	5.3	.0	.0	.0	209	.1	16.6
-2	.0	.0	.0	3.5	7.6	3.3	.0	.0	.0	183	.0	14.5
-3	.0	.0	.9	4.3	6.2	2.3	.0	.0	.0	171	.0	13.7
-4	.0	.0	.4	5.0	4.7	1.3	.0	.0	.0	145	.0	11.4
-5	.0	.0	.6	4.1	3.1	.4	.0	.0	.0	103	.0	8.1
-6	.0	.0	.8	1.7	1.4	.1	.0	.0	.0	49	.0	4.0
-7/-8	.0	.0	1.1	.8	1.3	.1	.0	.0	.0	41	.0	3.3
-9/-10	.1	.0	.2	.1	.0	.0	.0	.0	.0	5	.0	.4
-11/-13	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL										1263		
PCT	.1	.0	4.3	24.5	42.1	26.2	2.1	.5	.2	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.2	.0	.0	.0	.0	1.7
1-2	.0	1.9	.1	.0	.0	.0	2.0
3-4	.0	1.2	1.0	.0	.0	.0	2.2
5-6	.0	.1	.8	.3	.0	.0	1.3
7	.0	.0	.1	.3	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.5	2.0	.7	.0	.0	7.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8
1-2	.4	3.4	.7	.0	.0	.0	4.5
3-4	.2	1.4	1.4	.0	.0	.0	3.0
5-6	.0	.1	1.2	*	.0	.0	1.4
7	.0	.0	.6	*	.0	.0	.6
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.5	4.0	.1	.0	.0	10.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.8	.0	.0	.0	.0	2.2
1-2	.1	4.7	2.1	.0	.0	.0	6.9
3-4	.0	3.0	5.9	.3	.0	.0	9.2
5-6	.0	1.0	4.9	.1	.0	.0	6.0
7	.0	.0	2.1	.2	.0	.0	2.3
8-9	.0	.0	.9	.3	.1	.0	1.2
10-11	.0	.0	.3	.4	.0	.0	.6
12	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.1	.0	.4	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	10.6	16.1	2.4	.1	.0	29.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.5	.0	.0	.0	.0	.9
1-2	.4	2.9	1.3	.0	.0	.0	4.6
3-4	.0	3.0	6.3	.2	.0	.0	9.4
5-6	.0	.8	6.2	.3	.0	.0	7.3
7	.0	.2	4.1	1.3	.0	.0	5.6
8-9	.0	.0	1.0	.8	.2	.0	1.9
10-11	.0	.0	.3	.7	.1	.0	1.1
12	.0	.0	.1	.2	.0	.0	.3
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.3	19.3	3.8	.3	.0	31.4

PERIOD: (OVER-ALL) 1963-1978

ANNUAL

TABLE 18 (CONT)

AREA 0015 NIUE ISLAND
19.1S 169.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.4
1-2	.0	2.4	1.0	.0	.0	.0	3.4
3-4	.0	.9	1.9	.0	.0	.0	2.8
5-6	.0	.3	1.2	.2	.0	.0	1.7
7	.0	.1	.3	.1	.0	.0	.5
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.8	4.7	.3	.0	.0	9.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.9	.1	.0	.0	.0	1.0
3-4	.0	.4	1.1	.0	.0	.0	1.5
5-6	.0	*	*	.0	.0	.0	.1
7	.0	.0	*	.1	.0	.0	.2
8-9	.0	.1	*	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.6	1.3	.2	.0	.0	3.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.0	.9	.3	.0	.0	.0	1.1
3-4	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.6	.6	.1	.0	.0	2.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.3	.0	.0	.0	.0	.4	
1-2	.0	.6	.3	.0	.0	.0	.8	
3-4	.0	.5	.8	.0	.0	.0	1.2	
5-6	.0	.3	.4	*	.0	.0	.7	
7	.0	.1	.1	.2	.1	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	*	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.8	1.5	.3	.1	.0	3.8	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	5.0	.0	.0	.0	.0	9.8	
1-2	1.1	17.6	5.8	.0	.0	.0	24.5	
3-4	.2	10.6	18.3	.5	.0	.0	29.6	
5-6	.0	2.6	14.8	1.0	.0	.0	18.3	
7	.1	.4	7.3	2.3	.1	.0	10.2	
8-9	.0	.1	2.1	1.1	.2	.0	3.6	
10-11	.0	.0	.7	1.2	.1	.0	2.0	
12	.0	.0	.1	.7	.0	.0	.8	
13-16	.0	.1	.0	.8	.0	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	36.4	49.0	7.9	.5	.0	100.0	881

PERIOD: (OVER-ALL) 1952-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	3.0	11.2	5.0	2.7	1.0	.6	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	309	4
6-7	.0	.8	5.4	8.1	7.5	3.1	3.1	1.0	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	336	6
8-9	.0	.3	1.7	3.0	4.7	3.5	2.9	1.0	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	213	8
10-11	.0	.3	.5	1.0	1.8	1.2	1.3	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	8
12-13	.0	.0	.3	.7	1.0	.5	.7	.3	.6	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	49	9
>13	.0	.0	.0	.1	.3	.5	.2	.6	.1	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	23	12
INDET	1.6	.5	1.4	2.8	2.3	.9	.5	.1	.1	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	120	5
TOTAL																				1126	6
PCT	3.0	6.9	20.4	20.6	20.3	10.8	9.3	3.3	3.8	.8	.2	.2	.2	.2	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1950-1978
(OVER-ALL) 1866-1978

AREA 0015 NIUE ISLAND
19.1S 169.4W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	3.0	1.4	2.9	.9	.0	.0	.0	.0	.0	.0	.0	10	.7
85/86	7.0	11.9	8.5	7.4	4.5	.0	.0	.0	.0	1.4	.0	2.8	54	3.6
83/84	40.1	44.6	31.2	22.8	9.9	3.5	.0	.0	1.8	.7	10.0	9.4	220	14.5
81/82	38.7	28.7	47.5	40.4	42.3	13.3	14.8	4.0	14.0	19.4	28.7	40.6	423	27.9
79/80	14.1	10.9	9.2	22.8	28.8	52.2	34.8	19.5	28.1	32.6	34.7	35.8	405	26.7
77/78	.0	1.0	1.4	2.9	6.3	23.9	36.3	33.9	38.6	28.5	23.3	11.3	264	17.4
75/76	.0	.0	.7	.7	2.7	5.3	8.9	28.2	12.3	16.0	2.7	.0	99	6.5
73/74	.0	.0	.0	.0	4.5	1.8	3.7	13.7	4.4	1.4	.7	.0	37	2.4
71/72	.0	.0	.0	.0	.0	.0	1.5	1.6	.9	.0	.0	.0	5	.3
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	142	101	141	136	111	113	135	124	114	144	150	106	1517	100.0
MEAN	82.3	82.8	82.3	81.8	80.5	79.0	78.2	76.8	78.1	78.6	79.7	80.5	80.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1008	1002	1009	1011	1009	1009	1010	1007	1009	143
FEB	1010	1008	1009	1011	1010	1010	1010	1010	1010	112
MAR	1010	1009	1010	1011	1011	1011	1010	1013	1010	144
APR	1012	1011	1011	1013	1012	1013	1012		1012	139
MAY	1013	1010	1013	1011	1014	1014	1014	1013	1013	112
JUN	1015	1009	1015	1017	1015	1015	1015		1015	121
JUL	1015	1013	1016	1015	1016	1015	1015		1015	143
AUG	1015	1017	1014	1017	1015		1016	1019	1015	146
SEP	1014		1014	1015	1014	1011	1015		1014	126
OCT	1014	1015	1014	1016	1014	1013	1015	1015	1014	169
NOV	1011	1011	1011	1012	1013	1013	1011	1011	1011	162
DEC	1009	1009	1010	1012	1011	1009	1010	1002	1010	115
ANN	1012	1010	1012	1013	1013	1012	1013	1011	1012	1632
OBS	445	40	321	38	352	35	385	16		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1000	1001	1002	1007	1009	1012	1014	1016	1018
FEB	1002	1002	1006	1008	1009	1012	1014	1014	1015
MAR	1004	1004	1006	1008	1010	1012	1015	1015	1016
APR	1001	1005	1007	1010	1012	1013	1015	1017	1018
MAY	1007	1007	1009	1012	1013	1015	1016	1018	1020
JUN	1009	1009	1010	1014	1015	1016	1018	1019	1020
JUL	1007	1008	1011	1014	1015	1016	1018	1020	1021
AUG	1007	1008	1011	1013	1015	1017	1019	1022	1023
SEP	1010	1010	1011	1013	1014	1016	1018	1019	1020
OCT	1007	1008	1010	1013	1014	1016	1018	1020	1021
NOV	1001	1001	1003	1010	1012	1013	1016	1017	1020
DEC	1001	1001	1003	1008	1011	1012	1015	1017	1020

JANUARY

PERIOD: (PRIMARY) 1937-1978
(OVER-ALL) 1926-1978

AREA 0016 RAROTONGA ISLAND
20.2S 158.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	10.0	14.5	.0	.0	.0	.0	.0	24.5	2.7	2.7	.0	.0	.0	.0	.0	70.0
NE	12.2	14.5	4.6	.0	.0	.0	.0	31.3	.8	4.6	.0	.0	.0	.0	.0	66.4
E	3.4	4.1	2.5	.0	.0	.0	.0	8.0	.0	1.3	2.5	.0	.0	.0	.0	88.2
SE	.0	2.0	.0	.0	.0	.0	.0	2.0	10.8	.0	1.4	.0	2.7	.0	.0	83.1
S	.0	17.5	.0	.0	.0	.0	.0	17.5	.0	.0	.0	.0	.0	.0	.0	82.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	10.4	8.3	6.3	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0	.0	75.0
NW	17.4	12.0	5.4	.0	.0	.0	.0	34.8	13.0	.0	.0	.0	.0	.0	.0	52.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	6.5	7.9	2.3	.0	.0	.0	.0	16.8	3.7	1.4	.9	.0	.5	.0		77.1
TOT OBS:	214															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.4	5.2	1.7	.0	.0	.0	.0	10.3	3.4	.0	1.7	.0	1.7	.0	.0	82.8
06&09	5.1	10.3	.0	.0	.0	.0	.0	15.4	2.6	.0	.0	.0	.0	.0	.0	82.1
12&15	8.8	4.4	4.4	.0	.0	.0	.0	17.6	4.4	4.4	1.5	.0	.0	.0	.0	73.5
18&21	7.3	12.7	1.8	.0	.0	.0	.0	21.8	3.6	.0	.0	.0	.0	.0	.0	74.5
TOT PCT	6.4	7.7	2.3	.0	.0	.0	.0	16.4	3.6	1.4	.9	.0	.5	.0		77.7
TOT OBS:	220															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	4.6	5.7	1.9	.0	.0		13.7	12.7	16.3	25.0	10.9	75.0	10.8	5.4	13.8	.0
NE	.1	9.8	5.6	.7	.0	.0		16.2	10.8	14.9	41.7	16.0	.0	11.3	20.7	11.2	.0
E	1.5	14.4	10.4	1.1	.0	.0		27.4	11.0	24.0	10.7	37.2	.0	25.5	28.3	31.9	.0
SE	.8	6.4	6.8	2.0	.0	.0		16.0	13.2	16.3	13.1	17.3	.0	22.6	7.6	13.4	.0
S	1.6	2.3	2.0	.6	.0	.0		6.6	9.6	6.7	.0	16.0	.0	1.4	13.0	4.7	.0
SW	.4	1.7	.4	.0	.0	.0		2.5	7.2	4.3	9.5	.0	.0	2.8	1.1	.4	.0
W	.0	3.7	1.3	.4	.0	.0		5.5	10.4	4.3	.0	.0	.0	7.5	8.7	9.1	.0
NW	.5	4.5	3.0	2.5	.0	.0		10.5	13.9	11.1	.0	2.6	25.0	12.3	15.2	15.5	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.9	.0	.0	.0	5.7	.0	.0	.0
TOT OBS	20	117	87	23	0	0	247		11.4	52	21	39	1	53	23	58	0
TOT PCT	8.1	47.4	35.2	9.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.4	4.8	3.6	.9	.0		13.7	16.7	18.8	12.5	9.2	13.8
NE	2.6	11.3	1.8	.4	.0		16.2	10.8	22.6	15.6	14.1	11.2
E	5.0	18.9	3.5	.0	.0		27.4	11.0	20.2	36.3	26.3	31.9
SE	3.3	6.7	5.6	.4	.0		16.0	13.2	15.4	16.9	18.1	13.4
S	2.4	3.5	.6	.0	.0		6.6	9.6	4.8	15.6	4.9	4.7
SW	1.7	.8	.0	.0	.0		2.5	7.2	5.8	.0	2.3	.4
W	1.6	3.4	.4	.0	.0		5.5	10.4	3.1	.0	7.9	9.1
NW	2.4	4.8	2.2	1.1	.0		10.5	13.9	7.9	3.1	13.2	15.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.4	.0	3.9	.0
TOT OBS	62	134	44	7	0	247		11.4	73	40	76	58
TOT PCT	25.1	54.3	17.8	2.8	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1937-1978
(OVER-ALL) 1926-1978

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	8.2	43.8	38.4	8.2	.0	.0	11.2	100.0	73
06&09	.0	10.0	47.5	35.0	7.5	.0	.0	11.3	100.0	40
12&15	3.9	6.6	53.9	32.9	2.6	.0	.0	9.8	100.0	76
18&21	.0	1.7	43.1	34.5	20.7	.0	.0	14.0	100.0	58
TOT	4	16	117	87	23	0	0	11.4		247
PCT	1.6	6.5	47.4	35.2	9.3	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.6	6.0	7.8		6.8
NE	1.4	2.0	4.4	4.9		6.0
E	5.1	11.7	9.0	5.4		4.7
SE	2.8	5.1	6.1	2.9		4.9
S	.0	1.5	2.0	1.2		5.5
SW	1.5	.9	.2	.0		2.2
W	1.5	.9	.8	1.8		4.6
NW	.6	1.2	4.0	3.5		6.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.8	.0		6.3
TOT OBS	23	39	56	45	163	5.4
TOT PCT	14.1	23.9	34.4	27.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.5	2.1	4.9	1.5	.0	.0	.0	.0	6.0	
NE	.0	.0	.0	2.6	3.7	1.2	.0	.0	.0	.0	5.2	
E	.0	.0	1.8	9.1	2.3	.0	.0	.0	.0	.0	23.9	
SE	.0	.0	.6	.9	3.8	.6	.0	.0	.0	.0	10.9	
S	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	3.2	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
W	.0	.0	.0	1.2	.5	.0	.0	.0	.0	.0	3.4	
NW	.0	.0	.2	1.4	2.0	1.5	.0	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	.6	
TOT OBS	0	0	5	22	29	9	0	0	0	0	98	163
TOT PCT	.0	.0	3.1	13.5	17.8	5.5	.0	.0	.0	.0	60.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	4.8	5.4	5.4	5.4	5.4	5.4	5.4	5.4
* OR >1000	19.2	22.8	22.8	22.8	22.8	22.8	22.8	22.8
* OR >600	27.5	35.9	36.5	37.1	37.1	37.1	37.1	37.1
* OR >300	28.7	38.3	39.5	40.1	40.1	40.1	40.1	40.1
* OR >150	28.7	38.3	39.5	40.1	40.1	40.1	40.1	40.1
* OR > 0	28.7	38.3	39.5	40.1	40.1	40.1	40.1	40.1
TOTAL	48	64	66	67	67	67	67	67

TOTAL NUMBER OF OBS: 167 PCT FREQ NH <5/8: 59.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.1	12.9	14.6	14.6	15.7	7.3	12.9	4.5	16.3	.0	178

PERIOD: (PRIMARY) 1937-1978
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
2<5	PCP	.9	.9	.0	.0	.0	.0	.0	.9	.0	.0	2.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	.9	
	TOT %	.9	.9	.0	.0	.0	.0	.5	1.4	.0	.0	3.7	
5<10	PCP	1.9	1.6	1.5	.2	.4	.0	.7	1.2	.0	.0	7.5	
	NO PCP	2.7	1.5	1.6	2.1	.9	.0	.0	.0	.0	.0	8.9	
	TOT %	4.6	3.2	3.2	2.3	1.3	.0	.7	1.2	.0	.0	16.4	
10+	PCP	.4	2.2	.7	.1	.4	.0	.7	1.4	.0	.0	6.1	
	NO PCP	7.0	9.0	23.8	14.8	4.6	2.5	3.7	6.5	.0	1.4	73.4	
	TOT %	7.4	11.2	24.5	15.0	4.9	2.5	4.4	8.2	.0	1.4	79.4	
	TOT OBS												214
	TOT PCT	12.9	15.3	27.7	17.3	6.7	2.5	5.6	10.7	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.5	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.5	.0	.0	.0	.0	.5	.5	.0		1.4	
	11-21	.0	.5	.0	.0	.0	.0	.0	.0	.0		.5	
	22+	.9	.0	.0	.0	.0	.0	.0	.9	.0		1.9	
	TOT %	.9	.9	.0	.0	.0	.0	.5	1.4	.0	.0	3.7	
5<10	0-3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	4-10	1.6	1.9	1.2	.5	.0	.0	.0	.5	.0		5.6	
	11-21	2.0	1.3	1.6	1.2	.9	.0	.7	.2	.0		7.9	
	22+	.5	.0	.4	.7	.4	.0	.0	.5	.0		2.3	
	TOT %	4.6	3.2	3.2	2.3	1.3	.0	.7	1.2	.0	.0	16.4	
10+	0-3	.8	.1	1.3	.9	1.4	.5	.0	.6	.0	1.4	7.0	
	4-10	2.3	7.1	13.1	6.3	2.2	1.5	3.2	3.5	.0		39.3	
	11-21	3.7	3.3	9.6	6.1	.9	.5	.8	3.2	.0		28.0	
	22+	.5	.7	.6	1.6	.4	.0	.5	.9	.0		5.1	
	TOT %	7.4	11.2	24.5	15.0	4.9	2.5	4.4	8.2	.0	1.4	79.4	
	TOT OBS												214
	TOT PCT	12.9	15.3	27.7	17.3	6.7	2.5	5.6	10.7	.0	1.4	100.0	

JANUARY

PERIOD: (PRIMARY) 1937-1978
(OVER-ALL) 1926-1978

AREA 0016 RAROTONGA ISLAND
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	2.3	20.5	13.6	11.4	.0	.0	.0	.0	47.7	52.3	44
06&09	.0	.0	.0	13.2	26.3	.0	.0	.0	.0	.0	39.5	60.5	38
12&15	.0	.0	2.2	4.4	13.3	4.4	.0	.0	.0	.0	24.4	75.6	45
18&21	.0	.0	6.7	17.8	15.6	4.4	.0	.0	.0	.0	44.4	55.6	45
TOT	0	0	5	24	29	9	0	0	0	0	67	105	172
PCT	.0	.0	2.9	14.0	16.9	5.2	.0	.0	.0	.0	39.0	61.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	3.4	20.7	75.9	58
06&09	.0	.0	2.6	2.6	12.8	82.1	39
12&15	.0	.0	.0	4.4	14.7	80.9	68
18&21	.0	.0	.0	3.6	20.0	76.4	55
TOT	0	0	1	8	38	173	220
PCT	.0	.0	.5	3.6	17.3	78.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.3	23.3	25.6	51.2	43
06&09	.0	.0	17.1	28.6	54.3	35
12&15	.0	2.3	6.8	18.2	75.0	44
18&21	.0	6.7	24.4	20.0	55.6	45
TOT	0	5	30	38	99	167
PCT	.0	3.0	18.0	22.8	59.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.5	.0	.0	.0	1	.5
85/89	.0	.0	.0	.0	2.5	2.5	.5	.0	11	5.6
80/84	.0	.0	.5	.0	3.0	18.7	27.3	4.0	106	53.5
75/79	.0	.0	.0	.0	1.0	9.1	19.7	9.1	77	38.9
70/74	.0	.0	.0	.0	.0	.5	.0	1.0	3	1.5
TOTAL	0	0	1	0	14	61	94	28	198	100.0
PCT	.0	.0	.5	.0	7.1	30.8	47.5	14.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.4	.0	.0	.0	.0	.0	.0	.0
1.5	1.1	2.4	.0	.0	.5	.0	.0	.0	.0
8.5	7.6	16.4	6.1	2.8	1.5	2.7	6.6	.0	1.5
5.9	5.2	8.3	8.5	4.0	.0	2.3	4.2	.0	.5
.0	.0	.5	1.0	.0	.0	.0	.0	.0	.0
15.9	14.0	28.0	15.5	6.8	2.0	4.9	10.7	.0	2.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	94	93	87	81	76	76	76	81.2	72
06&09	83	82	82	80	77	76	76	79.7	40
12&15	84	83	82	79	76	74	74	79.0	78
18&21	84	83	83	80	75	73	73	79.5	60
TOT	94	87	84	80	76	74	73	79.9	250

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	17.2	31.0	41.4	10.3	79	58
06&09	.0	2.5	.0	27.5	57.5	12.5	82	40
12&15	.0	.0	3.7	29.6	48.1	18.5	83	54
18&21	.0	.0	4.0	32.0	46.0	18.0	83	50
TOT	0	1	14	61	96	30	82	202

JANUARY

PERIOD: (PRIMARY) 1937-1978
(OVER-ALL) 1926-1978

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 /6	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.5	1	.0	.5
7/8	.0	.0	.0	.5	.0	.0	1	.0	.5
6	.0	.0	.0	.5	.0	.0	1	.0	.5
5	.0	.0	.0	1.0	.0	.0	2	.0	1.0
3	.0	.5	1.0	.5	.0	.0	4	.5	1.5
2	.0	.5	1.5	.5	.0	.0	5	.0	2.6
1	.0	.5	7.7	.0	.0	.0	16	.0	8.2
0	.0	8.7	6.6	.5	.0	.0	31	.0	15.8
-1	.0	10.2	5.6	.5	.0	.0	32	.0	16.3
-2	.5	9.2	6.6	.0	.0	.0	32	.0	16.3
-3	1.0	10.7	2.0	.0	.0	.0	27	.0	13.8
-4	2.6	8.2	2.0	.0	.0	.0	25	.0	12.8
-5	1.0	4.6	.5	.0	.0	.0	12	.0	6.1
-6	1.5	.0	.0	.0	.0	.0	3	.0	1.5
-7/-8	1.0	.0	.0	.0	.0	.0	2	.0	1.0
-9/-10	.5	.0	.0	.0	.0	.0	1	.0	.5
-11/-13	.5	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	17		66		0			1	195
		104		8		1	196		
PCT	8.7	53.1	33.7	4.1	.0	.5	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.8	.0	.0	.0	.0	1.6
1-2	.0	1.8	.8	.0	.0	.0	2.7
3-4	.0	.0	.6	.6	.0	.0	1.2
5-6	.0	.6	1.6	.8	.0	.0	3.1
7	.0	.0	1.4	1.4	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.3	4.5	2.9	.0	.0	11.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.2	8.0	.4	.0	.0	.0	8.6
3-4	.0	2.7	.4	.0	.0	.0	3.1
5-6	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.8	.8	.0	.0	1.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	11.1	3.1	.8	.0	.0	15.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.9	.0	.0	.0	.0	2.9
1-2	1.4	6.4	2.9	.0	.0	.0	10.7
3-4	.0	2.9	4.5	.0	.0	.0	7.4
5-6	.0	1.6	5.1	.0	.0	.0	6.8
7	.0	.0	2.5	.6	.0	.0	3.1
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	13.7	15.6	.6	.0	.0	31.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.2	.0	.0	.0	.0	1.0
1-2	.0	4.1	.0	.0	.0	.0	4.1
3-4	.0	3.5	1.0	1.6	.0	.0	6.1
5-6	.0	.8	2.7	.0	.0	.0	3.5
7	.0	.0	1.6	.2	.0	.0	1.8
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.6	5.5	2.7	.0	.0	17.6

PERIOD: (OVER-ALL) 1964-1978 JANUARY AREA 0016 RAROTONGA ISLAND

TABLE 18 (CONT) 20.2S 158.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.8	.0	.0	.0	.0	.0	.8
3-4	.0	3.1	3.3	.0	.0	.0	6.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.1	3.3	.0	.0	.0	7.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.0	.0	.0	.0	.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.5	.0	.0	.0	.0	3.5
3-4	.0	.0	2.0	.0	.0	.0	2.0
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.8	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	2.7	.8	.0	.0	7.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.8	.0	.0	.0	.0	.8	
1-2	.0	2.7	.8	.0	.0	.0	3.5	
3-4	.0	.0	.4	.2	.0	.0	.6	
5-6	.0	.0	1.0	.0	.0	.0	1.0	
7	.0	.0	.0	1.0	.0	.0	1.0	
8-9	.0	.0	.0	1.6	.0	.0	1.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.5	2.3	2.9	.0	.0	8.6	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	4.9	.0	.0	.0	.0	6.6	
1-2	3.3	27.0	4.9	.0	.0	.0	35.2	
3-4	.0	12.3	12.3	2.5	.0	.0	27.0	
5-6	.0	3.3	11.5	.8	.0	.0	15.6	
7	.0	.0	6.6	4.1	.0	.0	10.7	
8-9	.0	.0	.8	1.6	.0	.0	2.5	
10-11	.0	.0	.8	1.6	.0	.0	2.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	47.5	36.9	10.7	.0	.0	100.0	122

PERIOD: (OVER-ALL) 1951-1978 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	8.2	10.1	5.0	3.1	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	3
6-7	.0	.0	3.8	10.7	8.8	5.7	1.3	1.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	51	7
8-9	.0	.0	1.9	5.0	5.7	2.5	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
10-11	.0	1.3	.6	.0	1.3	.0	.0	.6	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	9	9
12-13	.0	.0	.6	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
>13	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
INDET	1.9	.0	2.5	.0	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
TOTAL	10	15	31	36	37	16	4	3	4	1	2	0	0	0	0	0	0	0	0	159	5
PCT	6.3	9.4	19.5	22.6	23.3	10.1	2.5	1.9	2.5	.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1959-1978
(OVER-ALL) 1913-1978

AREA 0016 RAROTONGA ISLAND
20.15 159.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	12.8	11.9	3.7	.0	.0	.0	.0	28.4	2.8	.0	.0	.0	.0	.0	.0	68.8
NE	.0	7.7	1.0	.0	.0	.0	.0	8.7	5.8	1.0	1.9	.0	.0	.0	.0	82.7
E	15.4	4.9	3.6	.0	.0	.0	.0	23.9	3.3	1.0	2.0	.0	.0	.0	.0	69.9
SE	3.3	3.3	.0	.0	.0	.0	.0	6.6	11.8	.0	.0	.0	.0	.0	.0	81.6
S	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	94.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	7.7	26.9	.0	.0	.0	.0	.0	34.6	.0	.0	.0	.0	.0	.0	.0	65.4
NW	18.8	12.5	.0	.0	.0	.0	.0	31.3	6.3	.0	.0	.0	.0	.0	.0	62.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	33.3	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	66.7
TOT PCT	9.3	7.4	1.9	.0	.0	.0	.0	18.6	5.1	.5	.9	.0	.0	.0	.0	74.9
TOT OBS:	215															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	13.5	5.8	.0	.0	.0	.0	.0	19.2	7.7	.0	1.9	.0	.0	.0	.0	71.2
06&09	10.5	7.0	5.3	.0	.0	.0	.0	22.8	7.0	.0	.0	.0	.0	.0	.0	70.2
12&15	8.2	8.2	1.6	.0	.0	.0	.0	18.0	1.6	1.6	1.6	.0	.0	.0	.0	77.0
18&21	4.0	8.0	.0	.0	.0	.0	.0	12.0	6.0	.0	.0	.0	.0	.0	.0	82.0
TOT PCT	9.1	7.3	1.8	.0	.0	.0	.0	18.2	5.5	.5	.9	.0	.0	.0	.0	75.0
TOT OBS:	220															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	6.1	2.4	1.4	1.2	.0		11.9	14.0	19.9	.0	10.2	18.8	6.8	.0	17.0	.0
NE	.8	7.6	3.9	.0	.0	.0		12.3	9.7	9.7	8.3	18.1	.0	16.1	.0	11.8	.0
E	1.7	17.8	14.3	1.9	.4	.0		36.0	12.2	21.4	47.2	24.5	75.0	45.3	56.0	40.1	.0
SE	.8	7.1	7.7	1.9	.0	.0		17.5	12.4	26.0	.0	13.4	.0	13.0	29.8	17.5	.0
S	.8	3.7	2.2	.0	.0	.0		6.7	9.1	7.7	.0	13.4	.0	6.8	.0	3.3	.0
SW	.4	.6	.4	.4	.0	.0		1.9	14.6	.0	.0	2.8	.0	2.1	4.8	1.9	.0
W	.4	1.3	1.4	.7	.0	.0		3.8	12.9	3.6	27.8	3.2	.0	.0	9.5	1.9	.0
NW	.0	2.9	3.0	.8	.1	.0		6.9	13.8	11.7	16.7	8.8	6.3	5.7	.0	2.8	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0	.0	.0	5.6	.0	4.2	.0	3.8	.0
TOT OBS	21	112	84	17	4	0	238		11.7	49	9	54	4	48	21	53	0
TOT PCT	8.8	47.1	35.3	7.1	1.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.5	6.1	1.7	1.2	.4		11.9	14.0	16.8	10.8	4.7	17.0
NE	2.6	8.9	.7	.0	.0		12.3	9.7	9.5	16.8	11.2	11.8
E	5.8	22.1	6.9	1.3	.0		36.0	12.2	25.4	28.0	48.6	40.1
SE	4.0	8.8	4.7	.0	.0		17.5	12.4	22.0	12.5	18.1	17.5
S	3.2	2.8	.7	.0	.0		6.7	9.1	6.5	12.5	4.7	3.3
SW	.4	.6	.4	.4	.0		1.9	14.6	.0	2.6	2.9	1.9
W	.7	1.8	1.3	.0	.0		3.8	12.9	7.3	3.0	2.9	1.9
NW	.9	3.5	2.4	.1	.0		6.9	13.8	12.5	8.6	4.0	2.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	.0	5.2	2.9	3.8
TOT OBS	55	130	45	7	1	238		11.7	58	58	69	53
TOT PCT	23.1	54.6	18.9	2.9	.4		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1959-1978
(OVER-ALL) 1913-1978

AREA 0016 RAROTONGA ISLAND
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	5.2	46.6	37.9	8.6	1.7	.0	12.5	100.0	58
06&09	2.2	5.2	51.7	27.6	6.9	3.4	.0	11.3	100.0	58
12&15	2.9	5.8	50.7	33.3	7.2	.0	.0	11.0	100.0	69
18&21	3.8	7.5	37.7	43.4	5.7	1.9	.0	12.4	100.0	53
TOT	7	14	112	84	17	4	0	11.7		238
PCT	2.9	5.9	47.1	35.3	7.1	1.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	1.2	5.2	4.9		6.1
NE	1.4	2.6	3.9	3.0		5.5
E	4.8	6.8	10.3	12.8		5.5
SE	2.0	3.8	9.1	3.5		5.4
S	1.6	1.9	2.4	1.0		4.5
SW	.0	.5	.8	.5		6.1
W	.4	.0	1.0	1.1		6.3
NW	.8	.5	3.1	3.7		6.3
VAR	.0	.0	.0	.0		.0
CALM	.5	2.2	.5	.0		3.6
TOT OBS	25	36	67	56	184	5.5
TOT PCT	13.6	19.6	36.4	30.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	4.6	1.0	.5	.0	.0	.0	.0	6.8	
NE	.0	.0	.7	1.4	1.2	.4	.0	.0	.0	.0	7.2	
E	.5	.0	.0	4.5	8.4	1.2	.0	.0	.0	.5	19.4	
SE	.0	.0	.5	1.2	3.0	1.6	.0	.5	.0	.0	11.5	
S	.0	.0	.0	.4	.4	.0	.5	.0	.0	.0	5.6	
SW	.0	.0	.0	.1	.5	.5	.0	.0	.0	.0	.7	
W	.0	.0	.0	.0	1.1	1.0	.0	.0	.0	.0	.4	
NW	.0	.0	.0	1.4	1.8	.7	.0	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	2.7	
TOT OBS	1	0	3	25	32	12	1	1	0	1	108	184
TOT PCT	.5	.0	1.6	13.6	17.4	6.5	.5	.5	.0	.5	58.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
▪ OR >5000	.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
▪ OR >3300	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
▪ OR >2000	6.9	8.5	8.5	8.5	8.5	8.5	8.5	8.5
▪ OR >1000	17.5	23.3	25.4	25.4	25.4	25.4	25.4	25.4
▪ OR >600	24.3	34.9	38.1	38.6	38.6	38.6	38.6	38.6
▪ OR >300	25.4	36.0	39.7	40.2	40.2	40.2	40.2	40.2
▪ OR >150	25.4	36.0	39.7	40.2	40.2	40.2	40.2	40.2
▪ OR > 0	25.4	36.0	40.2	40.7	40.7	40.7	40.7	40.7
TOTAL	48	68	76	77	77	77	77	77

TOTAL NUMBER OF OBS: 189

PCT FREQ NH <5/8: 59.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.5	8.2	20.9	13.8	14.8	6.1	7.1	9.7	18.9	.0	196

PERIOD: (PRIMARY) 1959-1978
(OVER-ALL) 1913-1978

AREA 0016 RAROTONGA ISLAND
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
2<5	PCP	.5	.0	1.7	.1	.0	.0	.0	.0	.0	.0	2.3	
	NO PCP	.0	.0	.9	.5	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	.5	.0	2.7	.6	.0	.0	.0	.0	.0	.0	3.7	
5<10	PCP	2.0	.5	3.3	.5	.0	.0	.5	.8	.0	.0	7.4	
	NO PCP	1.2	.2	4.5	2.0	1.2	.5	.7	.5	.0	.0	10.7	
	TOT %	3.1	.7	7.8	2.4	1.2	.5	1.2	1.3	.0	.0	18.1	
10+	PCP	.8	.6	3.5	.6	.0	.0	.6	1.4	.0	.9	8.4	
	NO PCP	7.9	10.8	21.6	14.1	5.5	1.6	1.3	4.7	.0	1.9	69.3	
	TOT %	8.7	11.4	25.1	14.7	5.5	1.6	1.9	6.0	.0	2.8	77.7	
	TOT OBS												215
	TOT PCT	12.7	12.1	35.6	17.7	6.6	2.1	3.0	7.4	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.3	.0	.0	.0	.0	.0	.0	.1	.0		.5	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	1.7	.6	.0	.0	.0	.0	.0		2.3	
	22+	.5	.0	.9	.0	.0	.0	.0	.0	.0		1.4	
	TOT %	.5	.0	2.7	.6	.0	.0	.0	.0	.0	.0	3.7	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.8	.2	4.8	.6	.5	.0	.2	.3	.0		7.4	
	11-21	.8	.5	1.9	.7	.7	.0	.5	.6	.0		5.6	
	22+	1.5	.0	1.2	1.2	.0	.5	.5	.3	.0		5.1	
	TOT %	3.1	.7	7.8	2.4	1.2	.5	1.2	1.3	.0	.0	18.1	
10+	0-3	.9	.9	1.9	.5	.9	.5	.5	.0	.0	2.8	8.8	
	4-10	5.5	6.6	11.5	6.5	2.8	.7	.8	2.8	.0		37.2	
	11-21	1.9	3.8	11.3	6.7	1.7	.5	.2	2.7	.0		28.8	
	22+	.5	.0	.5	.9	.0	.0	.3	.6	.0		2.8	
	TOT %	8.7	11.4	25.1	14.7	5.5	1.6	1.9	6.0	.0	2.8	77.7	
	TOT OBS												215
	TOT PCT	12.7	12.1	35.6	17.7	6.6	2.1	3.0	7.4	.0	2.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.1	.0	2.1	12.5	16.7	6.3	.0	.0	.0	.0	39.6	60.4	48
06&09	.0	.0	1.9	15.4	15.4	7.7	1.9	1.9	.0	.0	44.2	55.8	52
12&15	.0	.0	.0	16.3	20.9	7.0	.0	.0	.0	2.3	46.5	53.5	43
18&21	.0	.0	2.1	8.3	14.6	6.3	.0	.0	.0	.0	31.3	68.8	48
TOT	1	0	3	25	32	13	1	1	0	1	77	114	191
PCT	.5	.0	1.6	13.1	16.8	6.8	.5	.5	.0	.5	40.3	59.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	5.8	23.1	71.2	52
06&09	.0	.0	1.8	3.5	12.3	82.5	57
12&15	.0	.0	.0	1.6	24.6	73.8	61
18&21	.0	.0	.0	4.0	10.0	86.0	50
TOT	0	0	1	8	39	172	220
PCT	.0	.0	.5	3.6	17.7	78.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.1	4.3	21.3	19.1	59.6	47
06&09	.0	2.0	17.6	27.5	54.9	51
12&15	.0	.0	18.6	27.9	53.5	43
18&21	.0	2.1	12.5	18.8	68.8	48
TOT	1	4	33	44	112	189
PCT	.5	2.1	17.5	23.3	59.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	1.0	.0	.0	.0	2	1.0
85/89	.0	.0	.0	.0	.5	2.9	1.0	.0	9	4.3
80/84	.0	.0	.0	.0	3.8	21.6	30.8	7.2	132	63.5
75/79	.0	.0	.0	.0	.0	2.4	10.1	17.3	62	29.8
70/74	.0	.0	.0	.0	.0	.0	.0	1.4	3	1.4
TOTAL	0	0	0	0	11	56	87	54	208	100.0
PCT	.0	.0	.0	.0	5.3	26.9	41.8	26.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
.5	.6	.4	.5	1.4	.0	.0	.5	.0	.5
8.9	8.7	21.3	9.6	3.1	1.6	2.3	5.6	.0	2.4
4.2	2.5	11.7	6.7	2.6	.1	.5	1.4	.0	.0
.0	.5	.5	.5	.0	.0	.0	.0	.0	.0
13.6	12.3	34.7	17.3	7.2	1.7	2.8	7.6	.0	2.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	87	82	77	70	70	82.0	58
06&09	85	84	84	81	76	71	71	80.5	60
12&15	84	83	82	80	76	74	74	79.4	69
18&21	89	88	83	81	76	73	73	80.4	54
TOT	90	89	84	81	76	73	70	80.5	241

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	17.3	26.9	38.5	17.3	80	52
06&09	.0	.0	3.5	24.6	45.6	26.3	84	57
12&15	.0	.0	.0	28.3	41.5	30.2	85	53
18&21	.0	.0	.0	28.0	44.0	28.0	84	50
TOT	0	0	11	57	90	54	83	212

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	2.0	.5	5	.0	2.4
11/13	.0	.0	.0	.0	.0	1.5	3	.0	1.5
9/10	.0	.0	.0	.5	.0	.5	2	.0	1.0
7/8	.0	.0	.0	.0	.0	.5	1	.0	.5
6	.0	.0	.0	.0	.5	.0	1	.0	.5
5	.0	.0	.0	.5	.0	.0	1	.0	.5
4	.0	.0	.0	.5	.0	.0	1	.0	.5
3	.0	.5	.0	.5	.0	.0	2	.0	1.0
2	.0	.0	.5	2.0	1.0	.0	7	.0	3.4
1	.0	.0	2.0	6.3	1.0	.0	19	.0	9.3
0	.0	.0	2.9	9.8	.5	.0	27	.0	13.7
-1	.0	.0	5.9	14.1	.0	.0	41	.0	20.0
-2	.0	.0	6.8	6.3	.0	.0	27	.0	13.2
-3	.0	.5	5.4	4.4	.0	.0	21	.0	10.2
-4	.0	1.0	6.8	3.4	.0	.0	23	.0	11.2
-5	.0	1.5	3.4	.5	.0	.0	11	.0	5.4
-6	.0	1.5	1.5	.0	.0	.0	6	.0	2.9
-7/-8	.0	.5	1.5	.0	.0	.0	4	.0	1.9
-11/-13	.0	1.0	.0	.0	.0	.0	2	.0	1.0
-14/-16	.5	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	1		75		10			0	205
		13		100		6	205		
PCT	.5	6.3	36.5	48.8	4.9	3.0	100.0		100.0

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	4.9	.5	.0	.0	.0	5.4
3-4	.7	.0	.0	.0	.0	.0	.7
5-6	.0	.6	1.0	.0	.0	.0	1.0
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.7	.5	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.7	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.3	2.8	.5	.7	.0	10.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.1	.0	.0	.0	.0	2.8
1-2	.7	4.2	1.4	.0	.0	.0	6.3
3-4	.0	2.8	1.9	.0	.0	.0	4.7
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	9.0	4.7	.0	.0	.0	15.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.7	10.9	1.4	.0	.0	.0	13.0
3-4	.0	3.8	4.3	.0	.0	.0	8.2
5-6	.0	.7	8.0	.5	.0	.0	9.2
7	.0	.0	4.0	2.6	.0	.0	6.6
8-9	.0	.0	.0	.0	.7	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	16.1	17.7	3.1	.7	.0	38.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1
1-2	.0	3.3	.7	.0	.0	.0	4.0
3-4	.0	.5	.7	.7	.0	.0	1.9
5-6	.0	.9	3.5	.2	.0	.0	4.5
7	.0	.0	1.2	1.6	.0	.0	2.8
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.8	6.1	3.1	.0	.0	16.0

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	.7	1.4	.0	.0	.0	3.5	.7	.0	.0	.0	.0	.0	.7
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.2
5-6	.0	1.0	.0	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	2.8	2.4	.0	.0	.0	6.6	.7	.9	.7	.7	.0	.0	2.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2	
1-2	.7	.7	.0	.0	.0	.0	1.4	.0	1.0	.2	.0	.0	.0	1.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	2.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.3	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	1.2	.0	1.2	.0	.0	3.1	.0	1.2	2.4	1.0	.0	.0	4.7	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	8.1	.0	.0	.0	.0	12.8	
1-2	4.1	25.0	5.4	.0	.0	.0	34.5	
3-4	.7	8.1	8.8	.7	.0	.0	18.2	
5-6	.0	2.7	13.5	1.4	.0	.0	17.6	
7	.0	.0	6.8	4.1	.0	.0	10.8	
8-9	.0	.0	.7	3.4	.7	.0	4.7	
10-11	.0	.0	.7	.0	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.7	.0	.0	.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								148
TOT PCT	9.5	43.9	35.8	9.5	1.4	.0	100.0	

PERIOD: (OVER-ALL) 1953-1978

TABLE 19

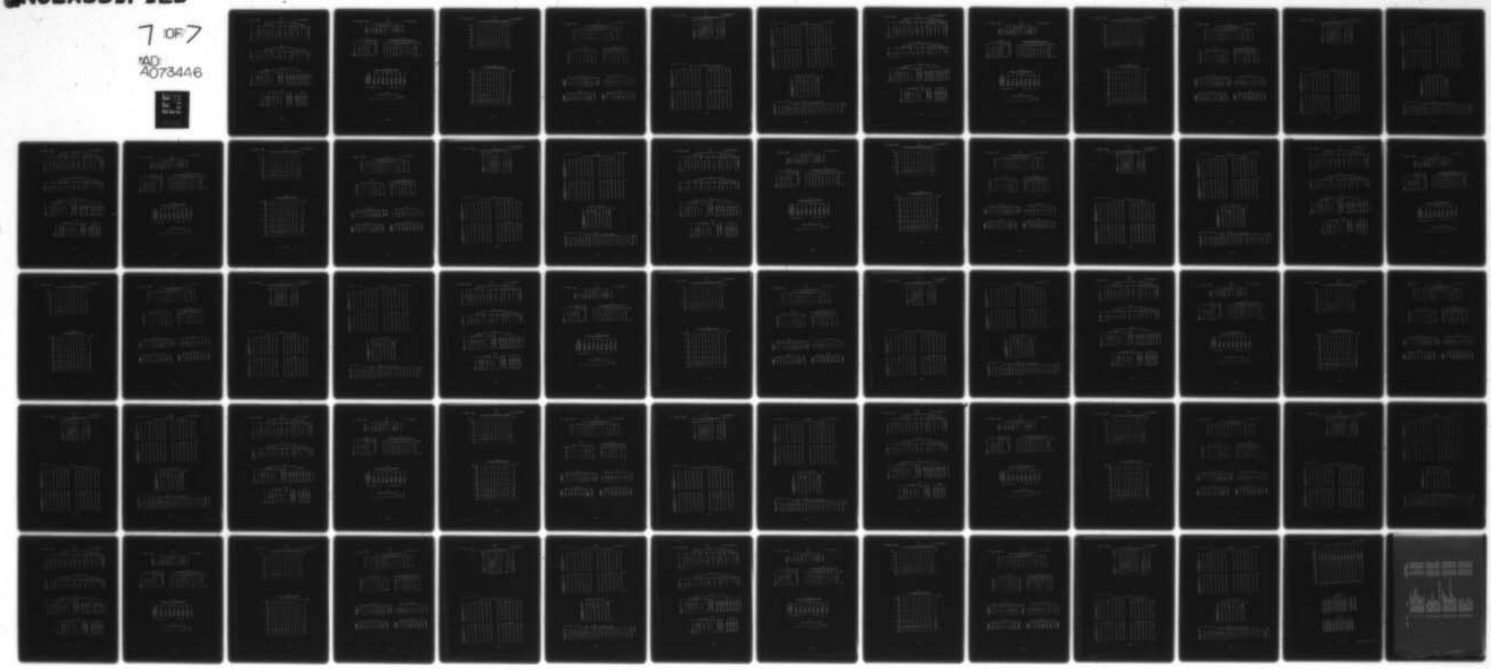
PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	4.8	5.5	6.1	3.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	4
6-7	.0	1.2	4.8	2.4	10.3	3.6	2.4	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	7
8-9	.0	.6	.0	4.2	5.5	5.5	3.0	.6	1.2	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	37	9
10-11	.0	.0	.6	.6	5.5	1.8	1.2	3.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	8
12-13	.0	.0	.0	.6	1.8	1.2	.6	.0	.0	1.2	.0	.0	.6	.0	.0	.0	.0	.0	.0	10	11
>13	.0	.0	.0	1.2	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDET	.6	.0	1.2	1.8	1.2	1.2	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
TOTAL	3	11	20	28	45	23	14	9	3	7	1	0	1	0	0	0	0	0	0	165	7
PCT	1.8	6.7	12.1	17.0	27.3	13.9	8.5	5.5	1.8	4.2	.6	.0	.6	.0	.0	.0	.0	.0	.0	100.0	

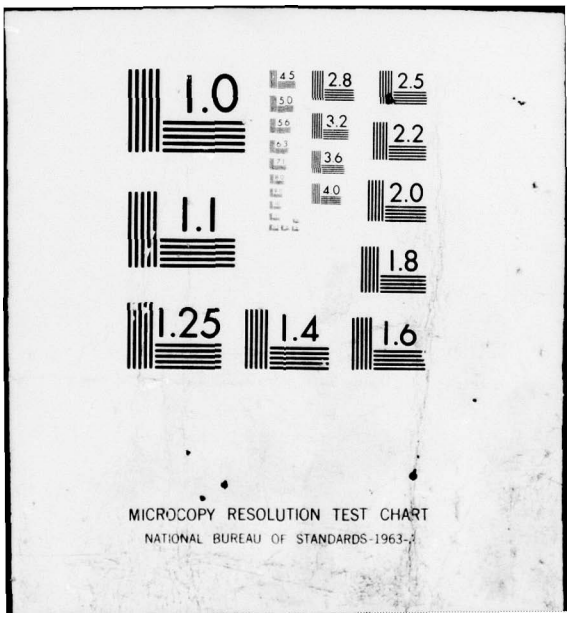
AD-A073 446 NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO) SELECTED--ETC(U)
SEP 79

UNCLASSIFIED NL

7 OF 7
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-

MARCH

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1926-1977

AREA 0016 RAROTONGA ISLAND
21.9S 159.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	11.9	14.3	4.8	.0	.0	.0	.0	31.0	.0	9.5	.0	.0	.0	.0	.0	59.5
NE	.8	7.3	1.6	.0	.0	.0	.0	9.8	.0	.0	3.3	.0	.0	.0	.0	87.0
E	.0	4.0	1.4	.0	.0	.0	.0	2.4	2.4	2.4	1.4	.0	.0	.0	.0	91.8
SE	.0	3.1	1.5	.0	.0	.0	.0	4.6	2.3	.8	1.5	.0	.0	.0	.0	90.7
S	.0	8.9	.0	.0	.0	.0	.0	8.9	15.6	8.9	.0	.0	.0	.0	.0	66.7
SW	17.4	.0	.0	.0	.0	.0	.0	17.4	.0	.0	.0	.0	.0	.0	.0	82.6
W	.0	23.5	.0	.0	.0	.0	.0	23.5	.0	23.5	.0	.0	.0	.0	.0	52.9
NW	8.3	25.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	66.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.4	4.8	1.4	.0	.0	.0	.0	7.6	2.4	2.4	1.4	.0	.0	.0	.0	86.2
TOT OBS:	210															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	4.3	.0	.0	.0	.0	.0	4.3	2.2	.0	2.2	.0	.0	.0	.0	91.3
06&09	1.7	1.7	.0	.0	.0	.0	.0	3.3	5.0	1.7	.0	.0	.0	.0	.0	90.0
12&15	4.3	5.7	2.9	.0	.0	.0	.0	12.9	1.4	7.1	4.3	.0	.0	.0	.0	75.7
18&21	.0	7.5	2.5	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	90.0
TOT PCT	1.9	4.6	1.4	.0	.0	.0	.0	7.9	2.3	2.8	1.9	.0	.0	.0	.0	85.6
TOT OBS:	216															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	1.5	3.5	.5	.0	.0		5.5	14.8	5.1	.0	4.3	.0	8.7	9.6	4.6	.0
NE	.5	9.1	4.3	.0	.0	.0		14.0	9.6	18.4	8.8	10.8	25.0	13.8	14.4	17.1	.0
E	.8	23.2	10.1	1.5	.0	.0		35.5	10.2	29.4	46.3	42.7	.0	36.2	16.3	39.5	50.0
SE	.9	13.1	12.1	3.5	.0	.0		29.5	12.9	35.3	31.3	25.9	50.0	32.1	33.7	19.7	50.0
S	.4	1.8	2.4	.6	.0	.0		5.3	12.8	2.2	13.8	5.6	25.0	6.1	5.8	.0	.0
SW	.0	2.8	.1	.0	.0	.0		2.9	7.0	3.7	.0	3.4	.0	.0	1.9	7.9	.0
W	.0	2.1	.6	.0	.0	.0		2.7	9.8	2.2	.0	1.3	.0	.0	15.4	2.0	.0
NW	.0	.5	1.5	.8	.0	.0		2.8	18.1	3.7	.0	2.6	.0	1.0	2.9	6.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	.0	.0	3.4	.0	2.0	.0	2.6	.0
TOT OBS	10	125	80	16	0	0	231		11.3	34	20	58	4	49	26	38	2
TOT PCT	4.3	54.1	34.6	6.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.0	4.0	1.0	.5	.0		5.5	14.8	3.2	4.0	9.0	4.4
NE	2.7	10.4	.9	.0	.0		14.0	9.6	14.8	11.7	14.0	16.3
E	8.3	22.7	4.0	.4	.0		35.5	10.2	35.6	39.9	29.3	40.0
SE	6.7	12.6	8.9	1.4	.0		29.5	12.9	33.8	27.4	32.7	21.3
S	1.3	2.7	1.0	.3	.0		5.3	12.8	6.5	6.9	6.0	.0
SW	1.7	1.2	.0	.0	.0		2.9	7.0	2.3	3.2	.7	7.5
W	.3	2.1	.3	.0	.0		2.7	9.8	1.4	1.2	5.3	1.9
NW	.5	.2	1.7	.3	.0		2.8	18.1	2.3	2.4	1.7	6.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	.0	3.2	1.3	2.5
TOT OBS	54	129	41	7	0	231		11.3	54	62	75	40
TOT PCT	23.4	55.8	17.7	3.0	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1926-1977

AREA 0016 RAROTONGA ISLAND
19.9S 158.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	3.7	40.7	48.1	7.4	.0	.0	12.7	100.0	54
06&09	3.2	1.6	59.7	27.4	8.1	.0	.0	10.7	100.0	62
12&15	1.3	4.0	58.7	29.3	6.7	.0	.0	10.8	100.0	75
18&21	2.5	.0	55.0	37.5	5.0	.0	.0	11.3	100.0	40
TOT	4	6	125	80	16	0	0	11.3		231
PCT	1.7	2.6	54.1	34.6	6.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.5	2.7	2.1		6.8
NE	3.0	3.6	4.7	3.0		4.7
E	5.0	14.3	11.1	4.4		4.4
SE	5.3	7.5	14.3	5.4		4.9
S	.6	1.7	2.1	.8		4.8
SW	.6	.6	1.2	.5		4.8
W	.5	.0	.0	.5		5.0
NW	.2	.2	1.2	.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	.6	1.2	.0	.0		2.0
TOT OBS	26	49	62	29	166	4.8
TOT PCT	15.7	29.5	37.3	17.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.5	.0	.0	.5	1.2	1.1	.0	.0	.0	.5	1.7	
NE	.0	.0	.0	.8	2.6	.2	.0	.0	.0	.0	10.8	
E	.0	.0	.0	1.7	3.8	1.5	.0	.0	.0	.0	27.9	
SE	.0	.0	1.2	2.0	5.3	.5	.6	.0	.0	.0	23.0	
S	.0	.0	.0	.6	1.1	.5	.0	.0	.0	.0	3.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
NW	.2	.0	.0	.6	.0	.0	.0	.0	.0	.2	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	
TOT OBS	1	0	2	10	23	6	1	0	0	1	122	166
TOT PCT	.6	.0	1.2	6.0	13.9	3.6	.6	.0	.0	.6	73.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >3000	.6	.6	.6	.6	.6	.6	.6	.6
* OR >1500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >2000	4.7	5.3	5.3	5.3	5.3	5.3	5.3	5.3
* OR >1000	15.9	18.8	18.8	18.8	18.8	18.8	18.8	18.8
* OR >600	20.0	24.1	24.7	24.7	24.7	24.7	24.7	24.7
* OR >300	20.0	24.7	25.9	25.9	25.9	25.9	25.9	25.9
* OR >150	20.0	24.7	25.9	25.9	25.9	25.9	25.9	25.9
* OR > 0	20.0	24.7	25.9	25.9	25.9	26.5	26.5	26.5
TOTAL	34	42	44	44	44	45	45	45

TOTAL NUMBER OF OBS: 170

PCT FREQ NH <5/8: 73.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.2	12.3	21.2	26.8	11.2	9.5	7.8	2.8	5.6	.6	179

MARCH

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1926-1977

AREA 0016 RAROTONGA ISLAND
19.9S 158.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	PCP	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
1/2<1	NO PCP	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.2	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.0	
2<5	NO PCP	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.2	.0	.0	.5	.0	.0	.0	.7	.0	.0	1.4	
	PCP	.6	.8	.0	.5	.5	.5	.5	.0	.0	.0	3.3	
5<10	NO PCP	.0	2.0	3.7	5.8	.6	.2	.4	.1	.0	.0	12.9	
	TOT %	.6	2.9	3.7	6.3	1.1	.7	.8	.1	.0	.0	16.2	
	PCP	.4	.6	.8	.5	.0	.0	.0	.1	.0	.0	2.4	
10+	NO PCP	3.5	11.2	30.1	22.6	4.3	2.0	1.2	1.8	.0	1.9	78.6	
	TOT %	3.8	11.8	31.0	23.1	4.3	2.0	1.2	1.9	.0	1.9	81.0	
	TOT OBS												210
	TOT PCT	5.0	14.6	34.6	30.8	5.4	2.7	2.0	2.9	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.4	.0	.0	.0	.0	.0	.0	.1	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.9	.0	.0	.0	.0	.0		.9	
	TOT %	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.0	.0	.0	.0	.0	.5	.0		.5	
	11-21	.4	.0	.0	.0	.0	.0	.0	.1	.0		.5	
	22+	.2	.0	.0	.5	.0	.0	.0	.2	.0		.9	
	TOT %	.6	.0	.0	.5	.0	.0	.0	.8	.0	.0	1.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	.4	1.7	2.5	2.1	.7	.7	.5	.0	.0		8.5	
	11-21	.2	1.2	.8	2.6	.4	.0	.4	.1	.0		5.7	
	22+	.0	.0	.4	1.5	.0	.0	.0	.0	.0		1.9	
	TOT %	.6	2.8	3.7	6.3	1.1	.7	.8	.1	.0	.0	16.1	
	0-3	.0	.6	.8	.9	.5	.0	.0	.0	.0	1.9	4.7	
10+	4-10	1.3	7.7	19.3	12.1	1.3	1.9	.8	.1	.0		44.5	
	11-21	2.5	3.4	9.4	9.1	1.8	.1	.4	1.3	.0		28.0	
	22+	.0	.0	1.3	.8	.7	.0	.0	.5	.0		3.3	
	TOT %	3.8	11.7	30.8	23.0	4.3	2.0	1.2	1.9	.0	1.9	80.6	
	TOT OBS												211
	TOT PCT	5.3	14.6	34.5	30.7	5.3	2.7	2.0	3.0	.0	1.9	100.0	

MARCH

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1926-1977

AREA 0016 RAROTONGA ISLAND
21.2S 159.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.7	.0	.0	.0	5.4	5.4	2.7	.0	.0	.0	16.2	83.8	37
06&09	.0	.0	4.1	8.2	14.3	8.2	2.0	.0	.0	2.0	38.8	61.2	49
12&15	.0	.0	.0	5.8	17.3	.0	.0	.0	.0	.0	23.1	76.9	52
18&21	.0	.0	.0	7.7	12.8	.0	.0	.0	.0	.0	20.5	79.5	39
TOT	1	0	2	10	23	6	2	0	0	1	45	132	177
PCT	.6	.0	1.1	5.6	13.0	3.4	1.1	.0	.0	.6	25.4	74.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.2	.0	.0	.0	15.2	82.6	46
06&09	.0	.0	.0	1.7	16.7	81.7	60
12&15	.0	2.9	.0	1.4	24.3	71.4	70
18&21	.0	.0	.0	4.9	2.4	92.7	41
TOT	1	2	0	4	35	175	217
PCT	.5	.9	.0	1.8	16.1	80.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.7	2.7	2.7	13.5	83.8	37
06&09	.0	4.3	12.8	27.7	59.6	47
12&15	.0	.0	6.1	18.4	75.5	49
18&21	.0	.0	8.1	13.5	78.4	37
TOT	1	3	13	32	125	170
PCT	.6	1.8	7.6	18.8	73.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.5	.0	.0	1	.5
85/89	.0	.0	.0	.0	.5	3.7	1.1	.0	10	5.3
80/84	.0	.0	.0	.0	1.6	23.5	33.2	1.6	112	59.9
75/79	.0	.0	.0	.0	2.1	7.5	15.5	7.5	61	32.6
70/74	.0	.0	.0	.0	.0	.0	.0	1.6	3	1.6
TOTAL	0	0	0	0	8	66	93	20	187	100.0
PCT	.0	.0	.0	.0	4.3	35.3	49.7	10.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
.0	1.1	2.1	1.7	.4	.0	.0	.0	.0	.0
1.6	10.6	23.7	18.4	1.9	1.1	.4	.7	.0	1.6
2.7	3.1	9.0	11.8	2.0	.7	.8	2.1	.0	.5
.8	.1	.0	.5	.0	.0	.0	.1	.0	.0
5.1	14.8	35.3	32.5	4.3	1.7	1.2	2.9	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	86	81	77	76	76	81.6	54
06&09	86	85	84	80	77	75	75	80.3	63
12&15	83	82	82	79	75	72	72	79.1	78
18&21	86	85	83	80	75	73	73	80.0	41
TOT	90	86	85	80	76	74	72	80.2	236

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	7.3	48.8	43.9	.0	78	41
06&09	.0	.0	3.6	30.9	60.0	5.5	81	55
12&15	.0	.0	3.6	27.3	47.3	21.8	84	55
18&21	.0	.0	2.5	37.5	47.5	12.5	81	40
TOT	0	0	8	67	96	20	81	191

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1926-1977

AREA 0016 RAROTONGA ISLAND
19.9S 158.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.0	.5	1	.0	.5
5	.0	.0	.0	.5	.5	.0	2	.0	1.0
4	.0	.0	.0	.0	.5	.0	1	.0	.5
3	.0	.0	2.0	.5	1.0	.0	7	.0	3.5
2	.0	.0	.0	1.0	.5	.0	3	.0	1.5
1	.0	.0	2.0	3.0	1.0	.0	12	.0	5.9
0	.0	.0	3.5	11.4	1.0	.0	32	.0	15.8
-1	.0	.0	9.9	8.4	.5	.0	38	.5	18.3
-2	.0	.0	10.4	9.9	.0	.0	41	.0	20.3
-3	.0	1.0	10.9	3.0	.0	.0	30	.0	14.9
-4	.0	1.5	3.5	1.5	.0	.0	13	.5	5.9
-5	.0	1.0	4.5	1.0	.0	.0	13	.0	6.4
-6	.5	1.0	1.5	.0	.0	.0	6	.5	2.5
-7/-8	.0	.0	.5	.0	.0	.0	1	.0	.5
-9/-10	.0	1.0	.0	.0	.0	.0	2	.0	1.0
TOTAL	1	11	98	81	10	1	202	3	199
PCT	.5	5.4	48.5	40.1	5.0	.5	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.6	2.1	.0	.0	.0	2.6
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	3.4	.0	.0	.0	4.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.2	.0	.0	.0	.0	3.0
1-2	.0	6.3	.0	.0	.0	.0	6.3
3-4	.2	2.6	2.2	.0	.0	.0	5.0
5-6	.0	.7	.0	.0	.0	.0	.7
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	11.9	3.7	.0	.0	.0	16.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	3.0	.0	.0	.0	.0	3.7
1-2	.0	14.0	3.0	.0	.0	.0	17.0
3-4	.6	5.4	4.1	.7	.0	.0	10.8
5-6	.0	1.5	2.6	.7	.0	.0	4.9
7	.0	.0	.7	.6	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	23.9	10.4	4.1	.0	.0	37.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	11.2	3.0	.0	.0	.0	14.2
3-4	.0	1.3	4.9	.0	.0	.0	6.2
5-6	.0	.0	4.5	.0	.0	.0	4.5
7	.0	.0	.7	.4	.0	.0	1.1
8-9	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.0	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.0	13.1	2.8	.0	.0	29.9

PERIOD: (OVER-ALL) 1963-1977

MARCH

TABLE 18 (CONT)

AREA 0016 RAROTONGA ISLAND
19.9S 158.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.7	.0	.0	.0	.0	.0	.7
3-4	.0	1.3	.7	.0	.0	.0	2.1
5-6	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	.0	.6	.0	.0	.6
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.3	2.6	1.1	.0	.0	5.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.7	.0	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.2	.0	.0	.0	.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.6	.6	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	1.1	.0	.0	.0	1.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.9	.0	.0	.0	.0	.9	
3-4	.0	.0	.2	.0	.0	.0	.2	
5-6	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.9	.6	.0	.0	.0	1.5	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.9	6.6	.0	.0	.0	.0	9.6	
1-2	.7	34.6	6.6	.0	.0	.0	41.9	
3-4	.7	11.0	14.0	.7	.0	.0	26.5	
5-6	.0	2.9	10.3	.7	.0	.0	14.0	
7	.0	.0	3.7	1.5	.0	.0	5.1	
8-9	.0	.0	.0	1.5	.0	.0	1.5	
10-11	.0	.0	.0	.7	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.7	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								136
TOT PCT	4.4	55.1	34.6	5.9	.0	.0	100.0	

PERIOD: (OVER-ALL) 1952-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	7.0	7.6	8.9	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	4
6-7	.0	.0	7.6	10.1	4.4	.6	1.9	.6	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	6
8-9	.0	.0	3.2	6.3	8.9	5.1	1.3	.6	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	7
10-11	.0	.6	.6	1.3	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
12-13	.0	.0	1.3	.6	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.6	1.3	3.8	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	13	7
TOTAL	3	14	38	43	32	10	8	2	6	1	0	0	0	1	0	0	0	0	0	158	6
PCT	1.9	8.9	24.1	27.2	20.3	6.3	5.1	1.3	3.8	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1896-1977

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	17.2	4.6	.0	.0	.0	.0	.0	78.2
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.2	14.8	.0	.0	.0	.0	.0	84.0
E	4.3	5.7	.0	.0	.0	.0	.0	10.0	1.4	.0	.7	.0	.0	.0	.0	87.9
SE	1.9	2.8	.0	.0	.0	.0	.0	4.7	6.1	.0	1.9	.0	.0	.0	.0	87.3
S	.0	11.3	.0	.0	.0	.0	.0	11.3	5.7	.0	3.8	.0	.0	.0	.0	79.2
SW	.0	5.6	.0	.0	.0	.0	.0	5.6	5.6	.0	44.4	.0	.0	.0	.0	44.4
W	4.1	13.5	.0	.0	.0	.0	.0	17.6	8.1	.0	.0	.0	.0	.0	.0	74.3
NW	9.4	1.9	7.5	.0	.0	.0	.0	18.9	9.4	7.5	.0	.0	.0	.0	.0	64.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.7	4.4	.4	.0	.0	.0	.0	7.5	5.3	2.2	1.8	.0	.0	.0	.0	83.2
TOT OBS:	226															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	5.1	.0	.0	.0	.0	.0	5.1	6.8	.0	1.7	.0	.0	.0	.0	86.4
06&09	3.6	.0	.0	.0	.0	.0	.0	3.6	5.4	3.6	.0	.0	.0	.0	.0	87.5
12&15	3.3	9.8	.0	.0	.0	.0	.0	13.1	6.6	4.9	3.3	.0	.0	.0	.0	72.1
18&21	3.7	3.7	1.9	.0	.0	.0	.0	9.3	1.9	.0	1.9	.0	.0	.0	.0	87.0
TOT PCT	2.6	4.8	.4	.0	.0	.0	.0	7.8	5.2	2.2	1.7	.0	.0	.0	.0	83.0
TOT OBS:	230															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	5.0	3.1	.8	.0	.0		9.3	11.1	12.7	.0	10.5	.0	7.8	4.5	8.6	37.5
NE	.4	5.2	2.7	.0	.0	.0		8.3	10.3	9.9	.0	9.2	.0	12.0	.0	7.3	12.5
E	.8	12.1	15.6	1.7	.0	.0		30.2	12.1	28.8	15.6	33.8	100.0	31.3	18.2	32.3	37.5
SE	.4	7.2	13.5	1.9	.0	.0		23.0	14.0	22.2	34.4	18.9	.0	20.8	29.5	26.3	12.5
S	.4	4.4	2.4	.0	.0	.0		7.2	10.2	3.8	.0	6.1	.0	5.2	11.4	12.9	.0
SW	.2	1.0	1.9	.0	.0	.0		3.1	11.0	.9	25.0	.4	.0	.0	20.5	.9	.0
W	2.0	2.3	3.9	.3	.0	.0		8.5	10.8	9.4	25.0	10.5	.0	4.7	11.4	6.0	.0
NW	.6	3.2	1.5	.5	.0	.0		5.8	10.2	6.6	.0	7.0	.0	7.8	4.5	3.9	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0	5.7	.0	3.5	.0	10.4	.0	1.7	.0
TOT OBS	24	101	111	13	0	0	249		11.4	53	8	57	1	48	22	58	2
TOT PCT	9.6	40.6	44.6	5.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.0	6.1	1.2	.0	.0		9.3	11.1	11.1	10.3	6.8	9.6
NE	.4	7.5	.4	.0	.0		8.3	10.3	8.6	9.1	8.2	7.5
E	4.2	21.2	3.9	.9	.0		30.2	12.1	27.0	34.9	27.1	32.5
SE	2.6	13.8	5.9	.7	.0		23.0	14.0	23.8	18.5	23.6	25.8
S	2.4	3.5	1.3	.0	.0		7.2	10.2	3.3	6.0	7.1	12.5
SW	.4	2.6	.1	.0	.0		3.1	11.0	4.1	.4	6.4	.8
W	3.3	3.0	1.9	.3	.0		8.5	10.8	11.5	10.3	6.8	5.8
NW	1.9	3.3	.1	.5	.0		5.8	10.2	5.7	6.9	6.8	3.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	4.9	3.4	7.1	1.7
TOT OBS	54	152	37	6	0	249		11.4	61	58	70	60
TOT PCT	21.7	61.0	14.9	2.4	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1896-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.9	3.3	26.2	59.0	6.6	.0	.0	12.3	100.0	61
06&09	2.4	5.2	44.8	37.9	8.6	.0	.0	12.1	100.0	58
12&15	7.1	8.6	41.4	38.6	4.3	.0	.0	10.3	100.0	70
18&21	1.7	3.3	50.0	43.3	1.7	.0	.0	11.0	100.0	60
TOT	11	13	101	111	13	0	0	11.4		249
PCT	4.4	5.2	40.6	44.6	5.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	3.7	2.4	3.5		5.3
NE	2.7	2.6	2.5	2.5		4.3
E	4.5	8.9	11.9	8.0		5.3
SE	3.9	5.1	9.3	5.0		5.1
S	.4	.4	2.7	1.4		6.1
SW	.1	.0	.3	.1		5.0
W	2.2	2.4	2.2	1.2		4.3
NW	.3	2.0	1.7	1.8		5.5
VAR	.0	.0	.0	.0		.0
CALM	2.6	.5	2.1	.0		3.2
TOT OBS	34	45	67	45	191	5.0
TOT PCT	17.8	23.6	35.1	23.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.3	3.0	.0	.0	.0	.0	.0	4.3	
NE	.0	.0	.0	1.0	.7	.0	.0	.0	.0	.0	8.6	
E	.0	.0	.0	5.2	4.8	1.8	.9	.0	.0	.0	18.5	
SE	.0	.0	.0	3.9	3.0	1.6	1.2	.0	.0	.0	13.6	
S	.0	.0	.0	.5	.0	1.8	.0	.0	.0	.0	2.6	
SW	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
W	.0	.0	.0	.4	2.2	.0	.0	.0	.0	.0	5.4	
NW	.0	.0	.0	1.0	1.3	.5	.0	.0	.0	.0	2.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	4.7	
TOT OBS	0	0	0	26	30	11	4	0	0	0	120	191
TOT PCT	.0	.0	.0	13.6	15.7	5.8	2.1	.0	.0	.0	62.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR >2000	7.2	7.7	7.7	7.7	7.7	7.7	7.7	7.7
* OR >1000	20.1	24.2	24.2	24.2	24.2	24.2	24.2	24.2
* OR >600	29.9	37.1	37.6	37.6	37.6	37.6	37.6	37.6
* OR >300	29.9	37.1	37.6	37.6	37.6	37.6	37.6	37.6
* OR >150	29.9	37.1	37.6	37.6	37.6	37.6	37.6	37.6
* OR > 0	29.9	37.1	37.6	37.6	37.6	37.6	37.6	37.6
TOTAL	58	72	73	73	73	73	73	73

TOTAL NUMBER OF OBS: 194 PCT FREQ NH <5/8: 62.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.5	11.9	17.3	19.8	10.4	9.4	7.9	4.5	15.3	.0	202

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.4	.0	.0	.3	.1	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.4	.0	.0	.3	.1	.0	.0	.9	
5<10	PCP	.0	.0	.9	.2	.2	.0	.4	.4	.0	.0	2.2	
	NO PCP	3.1	.4	1.3	3.9	.6	1.1	.7	.9	.0	.0	11.9	
	TOT %	3.1	.4	2.2	4.1	.8	1.1	1.1	1.3	.0	.0	14.2	
10+	PCP	.0	.0	2.2	.4	.4	.1	.7	.6	.0	.0	4.4	
	NO PCP	6.5	8.5	26.7	18.6	4.6	.8	6.1	3.9	.0	4.9	80.5	
	TOT %	6.5	8.5	28.9	19.0	5.1	.9	6.7	4.4	.0	4.9	85.0	
	TOT OBS												226
	TOT PCT	9.6	9.0	31.1	23.6	5.9	2.0	8.2	5.9	.0	4.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.3	.1	.0		.4	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	TOT %	.0	.0	.0	.4	.0	.0	.3	.1	.0	.0	.9	
5<10	0-3	.0	.0	.0	.0	.0	.2	.7	.4	.0	.0	1.3	
	4-10	.9	.0	1.5	1.7	.8	.4	.0	.4	.0		5.8	
	11-21	1.3	.4	.7	2.4	.0	.4	.4	.4	.0		6.2	
	22+	.9	.0	.0	.0	.0	.0	.0	.0	.0		.9	
	TOT %	3.1	.4	2.2	4.1	.8	1.1	1.1	1.3	.0	.0	14.2	
10+	0-3	.4	.4	.9	.4	.4	.0	1.1	.2	.0	4.9	8.8	
	4-10	4.0	5.5	10.8	5.3	3.0	.2	2.5	2.7	.0		34.1	
	11-21	2.1	2.5	15.3	11.6	1.7	.7	3.1	1.1	.0		38.1	
	22+	.0	.0	1.9	1.7	.0	.0	.0	.4	.0		4.0	
	TOT %	6.5	8.5	28.9	19.0	5.1	.9	6.7	4.4	.0	4.9	85.0	
	TOT OBS												223
	TOT PCT	9.6	9.0	31.1	23.6	5.9	2.0	8.2	5.9	.0	4.9	100.0	

APRIL

PERIOD: (PRIMARY) 1952-1977
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	5.8	23.1	5.8	1.9	.0	.0	.0	36.5	63.5	52
06&09	.0	.0	.0	13.7	17.6	3.9	2.0	.0	.0	.0	37.3	62.7	51
12&15	.0	.0	.0	21.3	8.5	.0	.0	.0	.0	.0	29.8	70.2	47
18&21	.0	.0	.0	12.0	14.0	12.0	4.0	.0	.0	.0	42.0	58.0	50
TOT	0	0	0	26	32	11	4	0	0	0	73	127	200
PCT	.0	.0	.0	13.0	16.0	5.5	2.0	.0	.0	.0	36.5	63.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	15.3	84.7	59
06&09	.0	.0	.0	1.8	14.3	83.9	56
12&15	.0	.0	.0	1.6	18.0	80.3	61
18&21	.0	.0	.0	.0	11.1	88.9	54
TOT	0	0	0	2	34	194	230
PCT	.0	.0	.0	.9	14.8	84.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	5.9	31.4	62.7	51
06&09	.0	.0	14.0	24.0	62.0	50
12&15	.0	.0	22.2	8.9	68.9	45
18&21	.0	.0	12.5	31.3	56.3	48
TOT	0	0	26	47	121	194
PCT	.0	.0	13.4	24.2	62.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.5	.0	.0	1	.5
85/89	.0	.0	.0	.5	2.4	1.0	.5	.0	9	4.4
80/84	.0	.0	.0	.0	4.4	23.8	24.8	3.9	117	56.8
75/79	.0	.0	.0	.5	2.4	9.7	15.5	8.7	76	36.9
70/74	.0	.0	.0	.0	.0	.0	.5	1.0	3	1.5
TOTAL	0	0	0	2	19	72	85	28	206	100.0
PCT	.0	.0	.0	1.0	9.2	35.0	41.3	13.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
.0	.6	2.2	1.1	.0	.0	.0	.5	.0	.0
5.8	6.6	22.8	11.2	1.6	.1	3.6	2.7	.0	2.4
3.3	.7	6.9	11.3	4.0	.6	4.9	2.3	.0	2.9
.0	.0	.0	.6	.4	.0	.0	.5	.0	.0
9.1	7.9	32.4	24.2	5.9	.7	8.5	5.9	.0	5.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	86	81	76	75	75	81.2	64
06&09	85	84	83	80	76	71	71	79.8	59
12&15	83	82	82	79	75	73	73	78.8	68
18&21	84	83	83	80	75	71	71	79.4	59
TOT	90	86	84	80	75	71	71	79.8	250

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.7	20.3	35.6	35.6	6.8	77	59
06&09	.0	1.9	3.7	35.2	40.7	18.5	81	54
12&15	.0	.0	2.1	33.3	45.8	18.8	83	48
18&21	.0	.0	8.0	36.0	44.0	12.0	80	50
TOT	0	2	19	74	87	29	80	211

APRIL

PERIOD: (PRIMARY) 1952-1977
(OVER-ALL) 1896-1977

AREA 0016 RAROTONGA ISLAND
20.0S 158.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.5	1	.0	.5
5	.0	.0	.0	.5	.0	.0	1	.0	.5
4	.0	.0	.5	.0	.5	.0	2	.0	.9
3	.0	.0	.9	1.4	.9	.0	7	.0	3.3
2	.0	.0	.5	1.9	1.4	.0	8	.0	3.7
1	.0	.0	1.9	4.0	.5	.0	18	.0	8.4
0	.0	.0	[illegible]	7.0	.9	.0	18	.0	8.4
-1	.0	.5	[illegible]	11.2	.0	.0	38	.5	17.2
-2	.0	1.4	10.7	5.1	.0	.0	37	.9	16.3
-3	.0	1.4	7.0	3.3	.0	.0	25	.0	11.6
-4	.0	1.4	4.2	2.3	.0	.0	17	.0	7.9
-5	.0	1.4	7.0	1.4	.0	.0	21	.0	9.8
-6	.0	.0	1.4	.5	.0	.0	4	.0	1.9
-7/-8	.5	1.9	4.2	.0	.0	.0	14	.0	6.5
-9/-10	.5	1.4	.0	.0	.0	.0	4	.0	1.9
TOTAL	2	20	96	87	9	1	215	3	212
PCT	.9	9.3	44.7	40.5	4.2	.5	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.5	.0	.0	.0	.0	1.2
1-2	.0	3.7	1.9	.0	.0	.0	5.6
3-4	.0	.6	2.8	.0	.0	.0	2.8
5-6	.0	.0	.7	.7	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.2	5.4	1.4	.0	.0	11.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.7	.0	.0	.0	.9
1-2	.7	4.2	.2	.0	.0	.0	5.1
3-4	.0	1.4	2.8	.0	.0	.0	4.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.8	3.7	.0	.0	.0	10.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1
1-2	1.4	11.0	4.0	.0	.0	.0	16.4
3-4	.0	2.1	4.4	.0	.0	.0	6.5
5-6	.0	.7	4.0	1.4	.0	.0	6.1
7	.0	.0	.7	1.0	.0	.0	1.7
8-9	.0	.0	.7	.5	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	15.9	13.8	3.0	.0	.0	34.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	5.1	1.6	.0	.0	.0	6.6
3-4	.0	.0	4.7	.0	.0	.0	4.7
5-6	.0	1.4	4.4	.0	.0	.0	5.8
7	.0	.0	2.1	.3	.0	.0	2.4
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	1.4	.0	.0	1.4
12	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.7	.0	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.6	12.8	3.3	.0	.0	22.7

PERIOD: (OVER-ALL) 1963-1977

APRIL

AREA 0016 RAROTONGA ISLAND
20.0S 158.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	.0	.0	.0	.0	3.0

SW

1-3	4-10	11-21	22-33	34-47	48+	PCT
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.2	.0	.0	.0	.0	.2
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.2	.0	.0	.0	.0	.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	.0	.0	.0	.0	.0	1.7
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	1.2	2.4	.0	.0	.0	3.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	1.7	3.0	.0	.0	.0	6.5

NW

1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
.3	.0	.0	.0	.0	.0	.3	
.0	.3	.0	.0	.0	.0	.3	
.0	.0	1.0	.0	.0	.0	1.0	
.0	.0	1.4	.7	.0	.0	2.1	
.0	.7	.2	.0	.0	.0	.9	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.3	1.0	2.6	.7	.0	.0	4.7	93.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.7	3.5	.7	.0	.0	.0	13.9	
1-2	2.1	27.8	7.6	.0	.0	.0	37.5	
3-4	.0	4.9	18.1	.0	.0	.0	22.9	
5-6	.0	2.1	10.4	2.8	.0	.0	15.3	
7	.0	.7	3.5	1.4	.0	.0	5.6	
8-9	.0	.0	.7	.7	.0	.0	1.4	
10-11	.0	.0	.0	2.1	.0	.0	2.1	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.7	.0	.0	.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.8	38.9	41.0	8.3	.0	.0	100.0	144

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	6.1	10.0	6.1	1.7	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	4
6-7	.0	.6	5.6	12.8	3.9	3.3	1.1	.0	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	6
8-9	.0	.0	2.2	6.7	3.9	1.7	2.2	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
10-11	.0	.0	.6	2.8	1.7	2.8	.0	.0	2.2	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	20	9
12-13	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.6	.0	1.1	.0	.0	.0	.0	.0	.0	5	17
>13	.0	.0	.0	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
INDET	1.7	.6	.6	3.3	1.7	.0	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
TOTAL	5	13	34	59	24	14	10	2	10	5	1	1	2	0	0	0	0	0	0	180	6
PCT	2.8	7.2	18.9	32.8	13.3	7.8	5.6	1.1	5.6	2.8	.6	.6	1.1	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1884-1977

AREA 0016 RAROTONGA ISLAND
20.1S 158.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	27.0	.0	.0	.0	.0	.0	.0	27.0	8.1	.0	.0	.0	.0		.0	64.9
NE	.0	.0	.0	.0	.0	.0	.0	.0	6.2	.0	.0	.0	.0		.0	93.8
E	.0	3.5	1.5	.0	.0	.0	.0	5.0	3.0	6.0	.0	.0	.0		.0	85.9
SE	8.0	3.6	.3	.0	.0	.0	.0	11.8	6.0	.0	1.1	.0	.0		.0	81.0
S	2.8	7.4	.0	.0	.0	.0	.0	10.2	2.8	.0	.0	.0	.0		.0	87.0
SW	9.1	.0	.0	.0	.0	.0	.0	9.1	2.3	.0	.0	.0	.0		.0	88.6
W	.0	.0	.0	.0	.0	.0	.0	.0	10.0	10.0	.0	.0	.0		.0	80.0
NW	7.4	.0	14.8	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0		.0	77.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0		.0	80.0
TOT PCT	5.2	3.0	.9	.0	.0	.0	.0	9.1	4.8	2.2	.4	.0	.0		.0	83.5
TOT OBS:	230															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.7	1.9	.0	.0	.0	.0	.0	5.6	3.7	.0	.0	.0	.0		.0	90.7
06&09	9.8	3.3	1.6	.0	.0	.0	.0	14.8	4.9	3.3	.0	.0	.0		.0	77.0
12&15	2.9	5.8	1.4	.0	.0	.0	.0	10.1	2.9	4.3	2.9	.0	.0		.0	81.2
18&21	4.9	.0	.0	.0	.0	.0	.0	4.9	6.6	1.6	.0	.0	.0		.0	86.9
TOT PCT	5.3	2.9	.8	.0	.0	.0	.0	9.0	4.5	2.4	.8	.0	.0		.0	83.7
TOT OBS:	245															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	3.3	1.4	.0	.0	.0		4.6	9.0	.0	17.9	2.9	.0	1.5	10.0	9.5	.0
NE	.8	4.8	3.3	.8	.0	.0		9.7	10.6	12.8	10.7	5.7	12.5	11.5	6.3	10.7	.0
E	.8	7.5	11.6	1.7	.0	.0		21.5	12.0	16.3	42.9	24.2	87.5	19.5	6.3	23.8	100.0
SE	.7	11.5	18.6	6.6	.4	.0		37.7	15.1	40.8	14.3	41.0	.0	38.5	45.0	33.7	.0
S	.9	5.1	5.1	1.0	.0	.0		12.2	12.3	14.8	.0	10.2	.0	12.5	27.5	8.7	.0
SW	.0	3.1	1.1	.2	.0	.0		4.3	9.4	3.1	14.3	3.7	.0	6.5	.0	4.8	.0
W	.8	2.5	.7	.0	.0	.0		4.0	7.9	5.6	.0	7.0	.0	4.0	.0	1.6	.0
NW	.4	1.0	1.8	.0	.0	.0		3.2	10.2	4.6	.0	3.7	.0	4.0	.0	2.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	2.0	.0	1.6	.0	2.0	5.0	4.8	.0
TOT OBS	18	98	110	26	1	0	253		12.2	49	7	61	2	50	20	63	1
TOT PCT	7.1	38.7	43.5	10.3	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	3.8	.0	.0	.0		4.6	9.0	2.2	2.8	3.9	9.4
NE	2.7	6.1	.1	.8	.0		9.7	10.6	12.5	6.0	10.0	10.5
E	4.6	14.3	2.3	.3	.0		21.5	12.0	19.6	26.2	15.7	25.0
SE	3.9	21.0	11.6	.9	.4		37.7	15.1	37.5	39.7	40.4	33.2
S	2.2	6.8	3.2	.0	.0		12.2	12.3	12.9	9.9	16.8	8.6
SW	1.7	2.4	.3	.0	.0		4.3	9.4	4.5	3.6	4.6	4.7
W	1.5	2.5	.0	.0	.0		4.0	7.9	4.9	6.7	2.9	1.6
NW	.8	2.0	.4	.0	.0		3.2	10.2	4.0	3.6	2.9	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.8						2.8	.0	1.8	1.6	2.9	4.7
TOT OBS	53	149	45	5	1	253		12.2	56	63	70	64
TOT PCT	20.9	58.9	17.8	2.0	.4		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1884-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	5.4	30.4	48.2	14.3	.0	.0	13.3	100.0	56
06&09	1.6	4.8	39.7	46.0	7.9	.0	.0	12.0	100.0	63
12&15	2.9	4.3	40.0	44.3	8.6	.0	.0	11.7	100.0	70
18&21	4.7	3.1	43.8	35.9	10.9	1.6	.0	12.1	100.0	64
TOT	7	11	98	110	26	1	0	12.2		253
PCT	2.8	4.3	38.7	43.5	10.3	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.4	2.8	.4		5.9
NE	2.5	2.5	4.1	.5		4.3
E	4.7	6.1	9.0	2.5		4.6
SE	5.3	7.4	15.1	10.8		5.5
S	2.7	3.8	2.2	1.4		4.0
SW	1.1	1.9	1.4	.5		4.1
W	.9	1.3	1.9	1.0		5.1
NW	.6	.0	1.1	1.1		5.7
VAR	.0	.0	.0	.0		.0
CALM	1.5	.5	.0	.5		3.0
TOT OBS	39	47	74	37	197	4.9
TOT PCT	19.8	23.9	37.6	18.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.8	.9	.0	.3	.0	.0	.4	1.6	
.0	.0	.0	.6	1.1	.0	.0	.0	.0	.0	7.9	
.0	.5	.0	2.5	1.3	2.3	.8	.0	.0	.0	15.0	
.0	.5	.0	6.0	10.0	2.8	1.4	.0	.0	.0	17.9	
.0	.0	.0	.9	1.8	.0	.4	.0	.0	.0	7.0	
.0	.5	.0	.3	.1	.0	.5	.0	.0	.0	3.6	
.0	.0	.0	.9	.5	.0	.0	.0	.0	.5	3.2	
.0	.0	.5	.8	.0	.0	.3	.0	.0	.1	1.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.0	
0	3	2	29	31	10	7	0	0	2	117	197
.0	1.5	1.0	12.7	15.7	5.1	3.6	.0	.0	1.0	59.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	3.9	3.9	4.3	4.3	4.3	4.3	4.3	4.3
* OR >2000	6.3	7.7	9.2	9.2	9.2	9.2	9.2	9.2
* OR >1000	20.3	23.2	25.1	25.1	25.1	25.1	25.1	25.1
* OR >600	26.1	34.3	37.7	37.7	37.7	37.7	37.7	37.7
* OR >300	26.6	35.3	38.6	38.6	38.6	38.6	38.6	38.6
* OR >150	27.5	36.7	40.1	40.1	40.1	40.1	40.1	40.1
* OR > 0	27.5	36.7	40.1	40.1	40.1	40.1	40.1	40.1
TOTAL	57	76	83	83	83	83	83	83

TOTAL NUMBER OF OBS: 207

PCT FREQ NH <5/8: 59.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.9	10.6	18.1	15.3	12.5	8.3	7.9	9.7	15.7	.0	216

PERIOD: (PRIMARY) 1959-1977
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	1.0	.8	.0	.0	.0	.0	.0	1.7	
	NO PCP	.0	.0	.4	1.8	.3	.0	.0	.0	.0	.0	2.6	
	TOT %	.0	.0	.4	2.8	1.1	.0	.0	.0	.0	.0	4.3	
5<10	PCP	.7	.0	1.1	2.4	.4	.4	.0	.7	.0	.0	5.7	
	NO PCP	.0	1.6	3.5	6.0	1.1	.0	.4	.4	.0	.0	13.0	
	TOT %	.7	1.6	4.6	8.4	1.5	.4	.4	1.1	.0	.0	18.7	
10+	PCP	.4	.0	.0	1.3	.0	.0	.0	.0	.0	.0	1.7	
	NO PCP	2.9	7.2	16.6	27.1	9.1	4.3	3.9	1.8	.0	2.2	75.2	
	TOT %	3.4	7.2	16.6	28.4	9.1	4.3	3.9	1.8	.0	2.2	77.0	
	TOT OBS												230
	TOT PCT	4.0	8.8	21.6	39.6	11.7	4.8	4.3	2.9	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	1.0	.3	.0	.0	.0	.0		1.3	
	11-21	.0	.0	.4	.1	.8	.0	.0	.0	.0		1.3	
	22+	.0	.0	.0	1.7	.0	.0	.0	.0	.0		1.7	
	TOT %	.0	.0	.4	2.8	1.1	.0	.0	.0	.0	.0	4.3	
5<10	0-3	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
	4-10	.0	1.5	.9	1.5	.9	.4	.0	.0	.0		5.2	
	11-21	.6	.1	2.7	3.7	.4	.0	.4	1.1	.0		9.1	
	22+	.0	.0	1.0	2.9	.4	.0	.0	.0	.0		4.3	
	TOT %	.6	1.6	4.5	8.3	1.9	.4	.4	1.1	.0	.0	19.0	
10+	0-3	.0	.9	.9	.4	.4	.0	.9	.4	.0	2.2	6.0	
	4-10	2.8	2.4	6.0	9.6	4.4	2.9	2.7	.6	.0		31.5	
	11-21	.5	3.0	9.1	15.2	3.6	1.2	.3	.8	.0		33.6	
	22+	.0	.9	.9	3.0	.6	.2	.0	.0	.0		5.6	
	TOT %	3.3	7.1	16.8	28.2	9.1	4.3	3.9	1.8	.0	2.2	76.7	
	TOT OBS												232
	TOT PCT	4.0	8.7	21.8	39.3	12.1	4.7	4.3	2.9	.0	2.2	100.0	

PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1884-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	6.0	.0	8.0	20.0	4.0	2.0	.0	.0	.0	40.0	60.0	50
06&09	.0	.0	1.8	12.5	21.4	3.6	5.4	.0	.0	1.8	46.4	53.6	56
12&15	.0	.0	.0	9.8	9.8	7.8	2.0	.0	.0	2.0	31.4	68.6	51
18&21	.0	.0	1.9	19.2	11.5	3.8	3.8	.0	.0	.0	40.4	59.6	52
TOT	0	3	2	26	33	10	7	0	0	2	83	126	209
PCT	.0	1.4	1.0	12.4	15.8	4.8	3.3	.0	.0	1.0	39.7	60.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	3.7	18.5	77.8	54
06&09	.0	.0	.0	4.9	14.8	80.3	61
12&15	.0	.0	.0	5.6	29.6	64.8	71
18&21	.0	.0	.0	4.9	13.1	82.0	61
TOT	0	0	0	12	48	187	247
PCT	.0	.0	.0	4.9	19.4	75.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <5&VV	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	6.1	16.3	24.5	59.2	49
06&09	.0	1.8	16.1	30.4	53.6	56
12&15	.0	.0	13.7	17.6	68.6	51
18&21	.0	2.0	23.5	19.6	56.9	51
TOT	0	5	36	48	123	207
PCT	.0	2.4	17.4	23.2	59.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	3.3	6.1	10.8	3.3	50	23.5
75/79	.0	.0	.0	.9	5.2	17.4	25.4	12.2	130	61.0
70/74	.0	.0	.0	1.4	1.9	1.9	2.8	7.5	33	15.5
TOTAL	0	0	0	5	22	54	83	49	213	100.0
PCT	.0	.0	.0	2.3	10.3	25.4	39.0	23.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
2.1	5.3	7.6	3.3	.4	1.1	1.2	1.6	.0	.9
1.5	2.9	15.6	27.1	6.7	1.9	2.7	1.2	.0	1.4
.4	.0	.5	7.3	3.9	1.6	.8	.0	.0	.5
4.0	8.8	23.7	37.7	10.9	4.6	4.7	2.8	.0	2.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	83	83	78	74	55	55	77.8	56
06&09	82	81	81	77	72	58	58	76.6	65
12&15	81	80	80	76	72	69	69	76.2	76
18&21	83	82	81	77	73	68	68	77.2	66
TOT	84	83	81	77	72	68	55	76.9	263

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.8	19.2	23.1	38.5	13.5	78	52
06&09	.0	1.7	8.4	19.0	39.7	31.0	84	58
12&15	.0	3.3	6.6	32.8	36.1	21.3	81	61
18&21	.0	.0	7.1	26.8	37.5	28.6	83	56
TOT	0	6	23	58	86	54	82	227

PERIOD: (PRIMARY) 1959-1977
(OVER-ALL) 1884-1977

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20.1S 158.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OR FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.4	1	.0	.4
9/10	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.0	.4	.0	1	.0	.4
4	.0	.0	.0	.4	.0	1	.0	.4
3	.0	.0	.0	.4	.0	1	.0	.4
2	.0	.0	.0	.4	.4	2	.0	.9
1	.0	.0	.9	.9	.4	5	.0	2.2
0	.0	.0	1.3	4.3	4.3	23	.0	10.0
-1	.0	.4	2.6	10.9	1.3	35	.0	15.2
-2	.0	.0	2.6	8.7	3.0	33	.4	13.9
-3	.0	.0	4.8	7.4	.4	29	.4	12.2
-4	.0	.0	8.7	7.4	.0	37	.0	16.1
-5	.0	.0	6.1	4.3	.4	25	.0	10.9
-6	.0	.0	6.1	.9	.0	16	.0	7.0
-7/-8	.4	2.2	3.0	.0	.4	14	.0	6.1
-9/-10	.0	.9	.9	.4	.0	5	.0	2.2
-11/-13	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	1	9	85	108	27	230	2	228
PCT	.4	3.9	37.0	47.0	11.7	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	1.0	1.0	.0	.0	.0	2.1
3-4	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	1.5	.0	.0	.0	4.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	1.4	2.6	1.7	.0	.0	.0	5.7
3-4	.0	1.4	1.2	.0	.0	.0	2.6
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	4.1	3.3	.0	.0	.0	8.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7
1-2	.7	3.6	3.6	.0	.0	.0	7.9
3-4	.0	3.9	4.3	.0	.0	.0	8.2
5-6	.0	.5	5.0	.5	.0	.0	6.0
7	.0	.0	1.2	.7	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	8.0	14.0	1.2	.0	.0	24.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.2	3.8	.0	.0	.0	11.0
3-4	.0	2.6	5.7	.0	.0	.0	8.2
5-6	.0	.2	8.6	.2	.0	.0	8.9
7	.0	.0	2.7	.7	.0	.0	3.4
8-9	.0	.0	1.4	4.1	.0	.0	5.5
10-11	.0	.0	.0	2.1	.0	.0	2.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.9	22.1	7.0	.0	.0	39.0

PERIOD: (OVER-ALL) 1963-1977

MAY

AREA 0016 RAROTONGA ISLAND
20.1S 158.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.5	.0	.0	.0	2.4	.0	2.9	.0	.0	.0	.0	2.9
3-4	.0	2.4	.0	.0	.0	.0	2.4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	1.4	.0	.0	.0	1.4	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	3.3	.5	.0	.0	8.0	.0	3.8	.7	.2	.0	.0	4.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.7	1.9	.0	.0	.0	.0	2.6	.0	.9	.3	.0	.0	.0	1.2	
3-4	.0	1.4	.0	.0	.0	.0	1.4	.0	.2	.7	.0	.0	.0	.9	
5-6	.0	.5	1.2	.0	.0	.0	1.7	.0	.0	.9	.0	.0	.0	.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	3.8	1.2	.0	.0	.0	5.7	.0	1.0	1.9	.0	.0	.0	2.9	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	1.3	.0	.0	.0	.0	5.3	
1-2	4.6	21.2	10.6	.0	.0	.0	36.4	
3-4	.0	11.9	12.6	.0	.0	.0	24.5	
5-6	.0	1.3	16.6	.7	.0	.0	18.5	
7	.0	.0	5.3	1.3	.0	.0	6.6	
8-9	.0	.7	1.3	4.0	.0	.0	6.0	
10-11	.0	.0	.0	2.6	.0	.0	2.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.6	36.4	46.4	8.6	.0	.0	100.0	151

PERIOD: (OVER-ALL) 1951-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	5.7	8.2	7.2	1.5	2.6	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	4
6-7	.0	1.5	3.6	8.2	6.7	2.1	1.5	.5	1.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	52	7
8-9	.0	.0	3.1	4.6	4.1	3.1	3.6	1.5	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	7
10-11	.0	.5	1.0	1.5	3.1	1.0	3.1	.0	.5	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	24	9
12-13	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	13
>13	.0	.0	.0	.5	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDET	1.0	.0	.5	.5	5.7	.5	.5	.0	.0	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	20	8
TOTAL	2	15	32	44	41	20	20	4	6	5	5	0	0	0	0	0	0	0	0	194	7
PCT	1.0	7.7	16.5	22.7	21.1	10.3	10.3	2.1	3.1	2.6	2.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1935-1977
(OVER-ALL) 1884-1977

AREA 0016 RAROTONGA ISLAND
20.2S 158.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	15.0	.0	.0	.0	.0	.0	15.0	.0	10.0	.0	.0	.0	.0	75.0
NE	5.4	6.8	.0	.0	.0	.0	.0	12.2	.0	.0	.0	.0	.0	.0	87.8
E	1.8	.0	.0	.0	.0	.0	.0	1.8	2.4	2.4	.0	.0	.0	.0	93.3
SE	1.8	1.4	.0	.0	.0	.0	.0	3.2	1.4	.0	.0	.0	.0	.0	95.4
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	10.3	.0	.0	.0	.0	.0	.0	10.3	.0	.0	.0	.0	.0	.0	89.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21.1	.0	.0	.0	78.9
NW	.0	12.8	.0	.0	.0	.0	.0	12.8	10.3	.0	.0	.0	.0	.0	76.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.0	2.5	.0	.0	.0	.0	.0	4.5	1.5	1.0	1.0	.0	.0	.0	92.0
TOT OBS:	201														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	97.8
06&09	1.8	.0	.0	.0	.0	.0	.0	1.8	.0	3.5	.0	.0	.0	.0	94.7
12&15	1.8	3.5	.0	.0	.0	.0	.0	5.3	3.5	.0	1.8	.0	.0	.0	89.5
18&21	3.9	3.9	.0	.0	.0	.0	.0	7.8	3.9	.0	2.0	.0	.0	.0	86.3
TOT PCT	1.9	2.4	.0	.0	.0	.0	.0	4.3	1.9	.9	.9	.0	.0	.0	91.9
TOT OBS:	211														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.8	1.8	.0	.0	.0		3.9	9.4	2.4	8.3	3.9	.0	8.2	.0	2.2	.0
NE	.0	5.7	3.1	.0	.0	.0		8.8	10.6	3.0	8.3	7.5	.0	7.1	9.4	15.1	.0
E	.0	10.1	9.0	1.9	.0	.0		21.0	13.0	28.0	18.8	22.9	.0	20.7	29.7	14.0	.0
SE	.0	12.5	21.9	3.3	.0	.0		37.6	13.6	30.5	47.9	40.0	50.0	35.9	10.9	44.9	.0
S	1.6	1.2	8.6	.3	.0	.0		11.7	13.2	22.6	.0	11.8	.0	9.2	18.8	7.4	.0
SW	.8	2.3	1.3	.0	.0	.0		4.3	8.3	3.7	16.7	3.6	.0	4.3	.0	4.4	.0
W	.0	4.1	.4	.0	.0	.0		4.5	7.6	2.4	.0	2.9	50.0	3.8	12.5	5.5	.0
NW	.0	2.5	1.4	.4	.0	.0		4.2	11.4	4.9	.0	1.8	.0	6.5	12.5	3.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9							3.9	.0	2.4	.0	5.7	.0	4.3	6.3	2.9	.0
TOT OBS	17	102	121	15	0	0	255		11.9	41	12	70	2	46	16	68	0
TOT PCT	6.7	40.0	47.5	5.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.0	2.9	.0	.0	.0		3.9	9.4	3.8	3.8	6.0	2.2
NE	1.0	7.4	.5	.0	.0		8.8	10.6	4.2	7.3	7.7	15.1
E	3.3	10.7	7.0	.0	.0		21.0	13.0	25.9	22.2	23.0	14.0
SE	5.7	20.6	10.1	1.3	.0		37.6	13.6	34.4	40.3	29.4	44.9
S	1.9	6.8	2.7	.3	.0		11.7	13.2	17.5	11.5	11.7	7.4
SW	1.6	2.6	.1	.0	.0		4.3	8.3	6.6	3.5	3.2	4.4
W	1.9	2.6	.0	.0	.0		4.5	7.6	1.9	4.2	6.0	5.5
NW	1.4	1.7	1.2	.0	.0		4.2	11.4	3.8	1.7	8.1	3.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.9						3.9	.0	1.9	5.6	4.8	2.9
TOT OBS	55	141	55	4	0	255		11.9	53	72	62	68
TOT PCT	21.6	55.3	21.6	1.6	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	3.8	32.1	56.6	5.7	.0	.0	12.9	100.0	53
06&09	5.6	1.4	41.7	44.4	6.9	.0	.0	11.9	100.0	72
12&15	4.8	6.5	45.2	38.7	4.8	.0	.0	10.5	100.0	62
18&21	2.9	.0	39.7	51.5	5.9	.0	.0	12.3	100.0	68
TOT	10	7	102	121	15	0	0	11.9		255
PCT	3.9	2.7	40.0	47.5	5.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.6	1.1	1.6	.0		2.6
NE	2.5	2.5	4.5	1.4		4.4
E	4.3	5.7	6.7	2.8		4.6
SE	10.7	7.3	12.7	3.6		4.3
S	2.6	5.1	3.3	.9		3.9
SW	2.0	1.1	1.4	.0		2.8
W	1.7	1.7	.0	.0		2.5
NW	1.7	.9	.9	1.9		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.9	.6	.6	.6		3.1
TOT OBS	50	42	51	18	161	4.1
TOT PCT	31.1	26.1	31.7	11.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	
NE	.0	.0	.8	1.4	1.2	.6	.0	.0	.0	.0	6.8	
E	.0	.0	.5	3.3	3.0	.0	.0	.0	.0	.0	12.9	
SE	.0	.0	.0	2.3	3.6	1.9	.2	.0	.0	.0	26.4	
S	.0	.0	.0	1.6	.9	.0	1.1	.0	.0	.0	8.4	
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	4.3	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	
NW	.0	.0	.0	.6	.0	1.2	.0	.0	.0	.0	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	
TOT OBS	0	0	2	13	14	6	2	0	0	0	122	161
TOT PCT	.0	.0	1.2	9.3	8.7	3.7	1.2	.0	.0	.0	75.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >2000	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
* OR >1000	12.6	13.2	13.2	13.2	13.2	13.2	13.2	13.2
* OR >600	21.0	22.2	22.2	22.2	22.2	22.2	22.2	22.2
* OR >300	22.2	23.4	23.4	23.4	23.4	23.4	23.4	23.4
* OR >150	22.2	23.4	23.4	23.4	23.4	23.4	23.4	23.4
* OR > 0	22.2	23.4	23.4	23.4	23.4	23.4	23.4	23.4
TOTAL	37	39	39	39	39	39	39	39

TOTAL NUMBER OF OBS: 167

PCT FREQ NH <5/8: 76.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.1	18.3	20.6	18.9	12.0	7.4	4.0	5.1	8.6	.0	175

PERIOD: (PRIMARY) 1935-1977
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
2<5	PCP	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	1.0	
5<10	PCP	.0	.0	.0	1.0	.0	.0	.0	.5	.0	.0	1.5	
	NO PCP	.0	.7	2.0	1.7	1.7	.2	1.0	.0	.0	.0	7.5	
	TOT %	.0	.7	2.0	2.7	1.7	.2	1.0	.5	.0	.0	9.0	
10+	PCP	.7	1.1	.0	.0	.0	.0	.0	.1	.0	.0	2.0	
	NO PCP	4.2	7.3	18.2	31.5	10.3	4.1	3.7	4.2	.0	4.0	87.6	
	TOT %	5.0	8.5	18.2	31.5	10.3	4.1	3.7	4.4	.0	4.0	89.6	
	TOT OBS												201
	TOT PCT	5.0	9.2	20.5	34.8	12.1	4.9	4.7	4.9	.0	4.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.5	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.4	.6	.0	.0	.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	1.0	
5<10	0-3	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	4-10	.0	.5	.0	.5	.2	.2	1.0	.5	.0		3.0	
	11-21	.0	.2	2.0	2.2	1.0	.0	.0	.0	.0		5.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.7	2.0	2.7	1.7	.2	1.0	.5	.0	.0	9.0	
10+	0-3	.5	.0	.0	.0	1.0	.5	.0	.0	.0	4.0	6.0	
	4-10	2.2	5.7	9.8	10.8	.9	2.0	3.2	2.1	.0		36.8	
	11-21	2.2	2.7	6.5	17.9	8.1	1.6	.5	1.7	.0		41.3	
	22+	.0	.0	1.9	2.7	.4	.0	.0	.5	.0		5.5	
	TOT %	5.0	8.5	18.2	31.5	10.3	4.1	3.7	4.4	.0	4.0	89.6	
	TOT OBS												201
	TOT PCT	5.0	9.2	20.5	34.8	12.1	4.9	4.7	4.9	.0	4.0	100.0	

JUNE

PERIOD: (PRIMARY) 1935-1977
(OVER-ALL) 1884-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	10.8	8.1	2.7	5.4	.0	.0	.0	27.0	73.0	37
06&09	.0	.0	.0	2.1	6.4	.0	.0	.0	.0	.0	8.5	91.5	47
12&15	.0	.0	2.2	8.9	8.9	6.7	.0	.0	.0	.0	26.7	73.3	45
18&21	.0	.0	2.4	14.6	9.8	4.9	.0	.0	.0	.0	31.7	68.3	41
TOT	0	0	2	15	14	6	2	0	0	0	39	131	170
PCT	.0	.0	1.2	8.8	8.2	3.5	1.2	.0	.0	.0	22.9	77.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	15.2	84.8	46
06&09	.0	.0	1.8	1.8	5.3	91.2	57
12&15	.0	.0	.0	1.8	12.3	86.0	57
18&21	.0	.0	.0	.0	5.9	94.1	51
TOT	0	0	1	2	20	188	211
PCT	.0	.0	.5	.9	9.5	89.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	11.1	16.7	72.2	36
06&09	.0	.0	4.3	6.5	89.1	46
12&15	.0	2.3	11.4	15.9	72.7	44
18&21	.0	2.4	17.1	14.6	68.3	41
TOT	0	2	18	22	127	167
PCT	.0	1.2	10.8	13.2	76.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.6	2.2	5.5	3.3	.6	22	12.2
75/79	.0	.0	.0	1.1	4.4	23.2	15.5	8.3	95	52.5
70/74	.0	.0	.0	1.1	7.7	9.4	12.2	4.4	63	34.8
65/69	.0	.0	.0	.0	.0	.0	.0	.6	1	.6
TOTAL	0	0	0	5	26	69	56	25	181	100.0
PCT	.0	.0	.0	2.8	14.4	38.1	30.9	13.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
2.8	.7	1.4	3.6	.8	.7	1.0	1.2	.0	.0
2.8	7.9	11.2	14.6	5.5	2.6	2.8	2.3	.0	2.8
.0	.8	6.5	18.1	7.2	.6	.4	1.2	.0	.0
.0	.0	.0	.0	.0	.6	.0	.0	.0	.0
5.5	9.4	19.1	36.3	13.5	4.4	4.1	4.8	.0	2.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	83	82	77	71	70	70	76.9	55
06&09	81	80	80	75	70	65	65	75.1	77
12&15	82	81	79	75	70	70	70	74.9	66
18&21	82	81	78	75	71	69	69	74.9	70
TOT	84	82	80	75	71	69	65	75.4	268

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.5	18.2	47.7	18.2	11.4	76	44
06&09	.0	5.9	11.8	37.3	35.3	9.8	77	51
12&15	.0	.0	19.2	28.8	32.7	19.2	80	52
18&21	.0	2.3	7.0	44.2	32.6	14.0	80	43
TOT	0	6	27	74	57	26	78	190

JUNE

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	1.1	2	.0	1.1
5	.0	.0	.0	.0	.6	1	.0	.6
4	.0	.0	.0	.6	.0	1	.0	.6
3	.0	.0	.0	.0	.6	1	.0	.6
2	.0	.6	.0	.6	.6	3	.0	1.7
1	.0	.0	.6	1.1	1.1	5	.0	2.8
0	.0	.0	1.1	9.7	.6	20	.0	11.4
-1	.0	.0	2.8	10.2	.0	23	.0	13.1
-2	.0	.6	6.8	9.1	.0	29	.6	15.9
-3	.0	1.1	6.3	5.7	.0	23	.6	12.5
-4	.0	1.7	9.1	3.4	.0	25	.0	14.2
-5	.0	2.3	7.4	.6	.0	18	.0	10.2
-6	.0	1.1	2.8	1.1	.0	9	.0	5.1
-7/-8	.6	1.7	4.5	.0	.0	12	.0	6.8
-9/-10	.0	1.1	.6	.6	.0	4	.0	2.3
TOTAL	1	18	74	75	8	176	2	174
PCT	.6	10.2	42.0	42.6	4.5	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.0	.0	.0	.0	.9
1-2	.0	2.1	1.6	.0	.0	.0	3.7
3-4	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.8	3.5	.0	.0	.0	7.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	4.0	1.9	.0	.0	.0	5.8
5-6	.0	.9	.0	.0	.0	.0	.9
7	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.9	3.0	.0	.0	.0	11.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	3.5	.9	.0	.0	.0	4.4
3-4	.0	4.9	1.6	.0	.0	.0	6.5
5-6	.0	.9	2.6	.0	.0	.0	3.5
7	.0	.0	1.6	1.9	.0	.0	3.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.6	.0	.0	1.6
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.2	6.8	3.5	.0	.0	21.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	1.4	7.2	.9	.0	.0	9.6
5-6	.0	3.7	5.4	.0	.0	.0	9.1
7	.0	.0	4.7	.0	.0	.0	4.7
8-9	.0	.0	1.9	1.9	.0	.0	3.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.1	19.2	3.0	.0	.0	31.3

PERIOD: (OVER-ALL) 1963-1977

JUNE

AREA 0016 RAROTONGA ISLAND
20.2S 159.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.0	.0	.0	.0	.9
1-2	.0	.0	.9	.0	.0	.0	.9
3-4	.0	.0	3.7	.0	.0	.0	3.7
5-6	.0	.0	2.1	.0	.0	.0	2.1
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	1.9	.0	.0	.0	1.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	.0	9.6	.0	.0	.0	10.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.9	1.2	.0	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	1.6	.0	.0	.0	3.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	2.6	.0	.0	.0	.0	2.6
3-4	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	.9	.0	.0	.0	4.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	2.6	.2	.0	.0	.0	2.8	
3-4	.0	.2	.0	.0	.0	.0	.2	
5-6	.0	.0	.9	.0	.0	.0	.9	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.8	1.2	.0	.0	.0	4.0	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.8	5.4	.0	.0	.0	.0	15.2	
1-2	.0	17.0	3.6	.0	.0	.0	20.5	
3-4	.0	11.6	15.2	.9	.0	.0	27.7	
5-6	.0	6.3	13.4	.0	.0	.0	19.6	
7	.0	.0	8.0	1.8	.0	.0	9.8	
8-9	.0	.0	3.6	1.8	.0	.0	5.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	1.8	.0	.0	1.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.8	40.2	43.8	6.3	.0	.0	100.0	112

PERIOD: (OVER-ALL) 1956-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	1.4	8.6	4.3	5.8	1.4	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
6-7	.0	.7	6.5	10.8	11.5	4.3	3.6	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	6
8-9	.0	.0	1.4	3.6	5.0	3.6	2.9	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
10-11	.0	.0	.7	.0	2.2	3.6	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
12-13	.0	.0	.0	.0	.0	1.4	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	10
>13	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	.0	.7	.7	1.4	.7	.7	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
TOTAL	1	4	25	28	35	22	14	7	3	0	0	0	0	0	0	0	0	0	0	139	6
PCT	.7	2.9	18.0	20.1	25.2	15.8	10.1	5.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1882-1977

AREA 0016 RAROTONGA ISLAND
20.1S 159.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.8	3.6	.0	.0	.0	.0	.0	7.9	6.3	.0	.0	.0	.0		.0	85.7
NE	2.8	.0	.0	.0	.0	.0	.0	2.8	2.8	.0	.0	.0	.0		.0	94.4
E	1.8	.0	.0	.0	.0	.0	.0	1.8	1.8	1.8	.0	.0	.0		.0	96.3
SE	.0	3.7	4.5	.0	.0	.0	.0	8.2	1.9	.0	.7	.0	.0		.0	89.1
S	3.2	1.6	.0	.0	.0	.0	.0	4.8	5.6	.0	7.9	.0	.0		.0	81.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0		.0	93.7
W	.0	10.8	.0	.0	.0	.0	.0	10.8	10.8	.0	.0	.0	.0		.0	78.4
NW	13.2	15.8	.0	.0	.0	.0	.0	28.9	.0	.0	.0	.0	.0		.0	71.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.1	2.5	1.2	.0	.0	.0	.0	5.7	3.3	.4	1.2	.0	.0		.0	89.8
TOT OBS:	244															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.4	5.2	.0	.0	.0	.0	.0	8.6	5.2	.0	.0	.0	.0		.0	86.2
06&09	1.7	1.7	1.7	.0	.0	.0	.0	5.1	5.1	.0	.0	.0	.0		.0	89.8
12&15	1.4	2.7	.0	.0	.0	.0	.0	4.1	2.7	1.4	4.1	.0	.0		.0	89.0
18&21	1.8	.0	3.6	.0	.0	.0	.0	5.4	.0	.0	.0	.0	.0		.0	94.6
TOT PCT	2.0	2.4	1.2	.0	.0	.0	.0	5.7	3.3	.4	1.2	.0	.0		.0	89.8
TOT OBS:	246															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	3.6	2.2	.0	.4	.0		6.8	9.7	5.1	20.2	4.9	.0	4.8	3.6	9.2	.0
NE	.0	8.7	5.5	.4	.0	.0		14.5	11.0	10.7	27.4	15.2	.0	8.3	13.4	17.9	100.0
E	.3	9.1	11.9	1.4	.0	.0		22.8	13.2	18.4	25.0	22.1	.0	23.7	15.2	30.0	.0
SE	.3	9.9	14.0	1.4	.0	.0		25.5	13.0	24.5	13.1	22.1	50.0	34.2	34.8	21.3	.0
S	.9	5.3	7.5	.7	.0	.0		14.4	11.4	21.4	6.0	10.7	50.0	10.5	29.5	11.3	.0
SW	.0	1.3	4.7	.1	.0	.0		6.1	14.3	9.2	.0	4.1	.0	10.1	.0	7.1	.0
W	.4	.4	2.3	1.0	.0	.0		4.0	14.8	6.6	.0	8.6	.0	3.1	.0	1.7	.0
NW	.0	1.9	1.8	.4	.0	.0		4.0	12.3	4.1	8.3	7.4	.0	3.5	3.6	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	.0	.0	4.9	.0	1.8	.0	1.7	.0
TOT OBS	12	112	139	15	1	0	279		12.2	49	61	61	2	57	28	60	1
TOT PCT	4.3	40.1	49.8	5.4	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	3.6	.3	.4	.0		6.8	9.7	9.6	4.8	4.4	9.0
NE	1.4	11.7	1.3	.0	.0		14.5	11.0	15.7	14.7	10.0	19.3
E	1.3	16.7	4.4	.4	.0		22.8	13.2	20.4	21.4	20.9	29.5
SE	2.2	17.0	5.4	.0	.0		25.5	13.0	21.1	23.0	34.4	20.9
S	2.6	10.0	1.8	.0	.0		14.4	11.4	16.8	11.9	16.8	11.1
SW	.4	3.4	2.3	.0	.0		6.1	14.3	6.4	4.0	6.8	7.0
W	.7	2.0	1.0	.4	.0		4.0	14.8	4.6	8.3	2.1	1.6
NW	1.3	1.5	.8	.4	.0		4.0	12.3	5.4	7.1	3.5	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	.0	4.8	1.2	1.6
TOT OBS	40	184	51	4	0	279		12.2	70	63	85	61
TOT PCT	14.3	65.9	18.3	1.4	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1882-1977

AREA 0016 RAROTONGA ISLAND
20.1S 159.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	1.4	42.9	45.7	8.6	1.4	.0	13.0	100.0	70
06&09	4.8	3.2	34.9	49.2	7.9	.0	.0	12.1	100.0	63
12&15	1.2	4.7	43.5	48.2	2.4	.0	.0	11.4	100.0	85
18&21	1.6	.0	37.7	57.4	3.3	.0	.0	12.3	100.0	61
TOT	5	7	112	139	15	1	0	12.2		279
PCT	1.8	2.5	40.1	49.8	5.4	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.5	3.8	.9		5.1
NE	4.8	6.4	2.3	1.0		3.5
E	6.0	7.9	5.9	1.8		4.0
SE	7.3	5.9	8.6	6.5		4.7
S	1.3	4.4	3.4	2.3		4.6
SW	2.1	3.5	.8	1.8		4.2
W	.5	1.3	2.0	.5		4.8
NW	.0	1.3	.4	.7		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.0	.5	.0		3.4
TOT OBS	47	62	53	30	192	4.3
TOT PCT	24.5	32.3	27.6	15.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	.4	.5	.0	.0	.0	.0	5.2	
NE	.0	.0	.0	.7	1.2	.0	.5	.0	.0	.0	12.2	
E	.0	.0	.0	3.9	2.2	.0	.3	.0	.0	.0	15.2	
SE	.0	.0	.5	2.7	6.9	1.6	.8	.0	.0	.0	15.8	
S	.0	.0	.0	.0	3.1	.5	.5	.0	.0	.0	7.3	
SW	.0	.0	.0	.5	1.0	.0	.5	.0	.0	.0	6.1	
W	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	1.8	
NW	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	2.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
TOT OBS	0	0	1	16	34	5	5	0	0	0	131	192
TOT PCT	.0	.0	.5	8.3	17.7	2.6	2.6	.0	.0	.0	68.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
▪ OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
▪ OR >3500	1.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
▪ OR >2000	4.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2
▪ OR >1000	19.1	21.6	22.7	22.7	22.7	22.7	22.7	22.7
▪ OR >600	27.8	30.4	31.4	31.4	31.4	31.4	31.4	31.4
▪ OR >300	27.8	30.9	32.0	32.0	32.0	32.0	32.0	32.0
▪ OR >150	27.8	30.9	32.0	32.0	32.0	32.0	32.0	32.0
▪ OR > 0	27.8	30.9	32.0	32.0	32.0	32.0	32.0	32.0
TOTAL	54	60	62	62	62	62	62	62

TOTAL NUMBER OF OBS: 194

PCT FREQ NH <5/8: 68.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.9	17.5	18.0	18.4	13.1	6.3	7.3	7.3	10.2	.0	206

JULY

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1852-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	PCP	.3	.4	.0	.0	.0	.0	.0	.1	.0	.0	.8	
2<5	NO PCP	.0	.0	.3	.1	.0	.0	.4	.4	.0	.0	1.2	
	TOT %	.3	.4	.3	.1	.0	.0	.4	.5	.0	.0	2.1	
	PCP	.0	.0	.4	1.4	.2	.0	.0	.8	.0	.0	2.9	
5<10	NO PCP	.2	2.4	2.5	3.6	2.3	1.2	.0	1.4	.0	.0	13.6	
	TOT %	.2	2.4	2.9	5.0	2.5	1.2	.0	2.3	.0	.0	16.5	
	PCP	.2	.0	.0	.8	.0	.0	.0	.2	.0	.0	1.2	
10+	NO PCP	5.8	12.0	19.2	21.5	10.1	5.2	3.0	.9	.0	2.1	79.8	
	TOT %	6.0	12.0	19.2	22.3	10.1	5.2	3.0	1.1	.0	2.1	81.1	
	TOT OBS												243
	TOT PCT	6.5	14.8	22.4	27.5	12.6	6.5	3.8	3.9	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.4	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
2<5	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.0	.3	.1	.0	.0	.0	.5	.0		1.2	
	22+	.0	.4	.0	.0	.0	.0	.0	.0	.0		.4	
	TOT %	.3	.4	.3	.1	.0	.0	.4	.5	.0	.0	2.1	
	0-3	.0	.0	.0	.2	.6	.0	.0	.0	.0	.0	.8	
5<10	4-10	.2	1.2	1.2	1.9	.6	.0	.0	1.4	.0		6.6	
	11-21	.0	1.1	1.6	2.6	1.2	1.2	.0	.8	.0		8.6	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	TOT %	.2	2.4	2.9	5.0	2.5	1.2	.0	2.3	.0	.0	16.5	
	0-3	.8	.0	.3	.1	.0	.0	.0	.0	.0	2.1	3.3	
10+	4-10	2.8	7.4	6.6	8.4	3.6	1.4	.4	.2	.0		30.9	
	11-21	2.0	4.6	11.0	13.1	5.7	3.7	1.4	.5	.0		42.0	
	22+	.4	.0	1.3	.7	.8	.1	1.1	.4	.0		4.9	
	TOT %	6.0	12.0	19.2	22.3	10.1	5.2	3.0	1.1	.0	2.1	81.1	
	TOT OBS												243
	TOT PCT	6.5	14.8	22.4	27.5	12.6	6.5	3.8	3.9	.0	2.1	100.0	

JULY

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1882-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	9.1	22.7	4.5	.0	.0	.0	.0	36.4	63.6	44
06&09	.0	.0	.0	10.7	14.3	1.8	3.6	.0	.0	.0	30.4	69.6	56
12&15	.0	.0	.0	7.7	17.3	1.9	1.9	.0	.0	.0	28.8	71.2	52
18&21	.0	.0	1.9	5.8	13.5	1.9	3.8	.0	.0	.0	26.9	73.1	52
TOT	0	0	1	17	34	5	5	0	0	0	62	142	204
PCT	.0	.0	.5	8.3	16.7	2.5	2.5	.0	.0	.0	30.4	69.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	1.8	17.5	80.7	57
06&09	.0	.0	1.7	1.7	15.3	81.4	59
12&15	.0	.0	.0	2.7	21.9	75.3	73
18&21	.0	.0	.0	1.8	8.9	89.3	56
TOT	0	0	1	5	40	199	245
PCT	.0	.0	.4	2.0	16.3	81.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	11.9	28.6	59.5	42
06&09	.0	.0	14.3	20.4	65.3	49
12&15	.0	.0	11.8	21.6	66.7	51
18&21	.0	1.9	9.6	17.3	73.1	52
TOT	0	1	23	42	129	194
PCT	.0	.5	11.9	21.6	66.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.9	.9	3.2	.5	12	5.4
75/79	.0	.0	.0	.0	3.6	22.2	16.3	6.8	108	48.9
70/74	.0	.0	.0	5.0	9.0	10.4	10.0	6.8	91	41.2
65/69	.0	.0	.5	.0	.5	1.4	2.3	.0	10	4.5
TOTAL	0	0	1	11	31	77	70	31	221	100.0
PCT	.0	.0	.5	5.0	14.0	34.8	31.7	14.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	2.3	1.7	.1	.0	.0	.0	.9	.0	.0
4.8	10.6	10.0	12.4	3.5	1.0	2.9	2.7	.0	.9
.3	.8	9.5	11.8	9.5	6.2	1.2	.5	.0	1.4
.0	.0	.0	3.8	.2	.5	.0	.0	.0	.0
5.5	13.7	21.2	28.2	13.2	7.7	4.2	4.1	.0	2.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	83	82	80	76	69	69	69	75.3	69
06&09	83	82	82	76	71	66	66	75.6	62
12&15	79	78	78	74	69	67	67	73.9	85
18&21	79	78	78	74	69	68	68	74.0	60
TOT	83	82	79	75	70	68	66	74.6	276

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	14.0	18.0	32.0	20.0	16.0	76	50
06&09	.0	.0	16.4	32.8	36.1	14.8	79	61
12&15	.0	4.9	9.8	41.0	27.9	16.4	78	61
18&21	.0	4.0	12.0	32.0	44.0	8.0	79	50
TOT	0	12	31	77	71	31	78	222

PERIOD: (PRIMARY) 1936-1977
(OVER-ALL) 1882-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 58	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	1.3	3	.0	1.3
5	.0	.0	.0	.0	.9	2	.0	.9
4	.0	.0	.0	.4	.0	1	.0	.4
3	.0	.0	.4	2.2	.0	6	.0	2.6
2	.0	.4	.0	.4	.0	2	.0	.9
1	.0	.0	.4	2.2	.0	7	.0	3.0
0	.0	.0	3.9	9.1	.0	30	.4	12.6
-1	.0	1.3	5.6	5.6	.4	30	.0	13.0
-2	.0	2.2	9.1	5.6	.0	39	.4	16.5
-3	.0	3.5	6.5	2.6	.0	29	.0	12.6
-4	.4	3.5	7.4	.9	.0	28	.0	12.1
-5	.4	1.3	5.6	.4	.0	18	.4	7.3
-6	.4	3.0	2.2	.0	.0	13	.0	5.6
-7/-8	.0	6.5	.4	.0	.0	17	.0	7.4
-9/-10	.4	1.7	.4	.0	.0	6	.0	2.6
TOTAL	4		99		6	231	3	228
PCT	1.7	23.3	42.9	29.5	2.6	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7
1-2	.0	2.1	.7	.0	.0	.0	2.8
3-4	.0	1.1	1.2	.0	.0	.0	2.3
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.2	2.5	.0	.0	.0	6.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.7	.0	.0	.0	.7
1-2	.0	8.2	.7	.0	.0	.0	8.9
3-4	.0	2.7	3.4	.0	.0	.0	6.0
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.7	.7	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.8	5.7	.7	.0	.0	17.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	1.4	.0	.0	.0	4.4
3-4	.0	1.2	7.6	.0	.0	.0	8.9
5-6	.0	.0	2.0	.0	.0	.0	2.0
7	.0	.0	.5	1.2	.0	.0	1.8
8-9	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	12.9	2.0	.0	.0	19.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.3	2.1	.0	.0	.0	7.4
3-4	.0	2.8	3.5	.7	.0	.0	7.1
5-6	.0	.7	6.7	.0	.0	.0	7.4
7	.0	.0	2.3	.2	.0	.0	2.5
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.9	16.1	.9	.0	.0	25.9

PERIOD: (OVER-ALL) 1949-1977

JULY

AREA 0016 RAROTONGA ISLAND
20.1S 159.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.4	.7	.0	.0	.0	4.1	.0	1.4	.7	.0	.0	.0	2.1
3-4	.0	.0	3.4	.7	.0	.0	4.1	.0	.7	1.4	.0	.0	.0	2.1
5-6	.0	.7	1.6	.0	.0	.0	2.3	.0	.0	3.2	.0	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.7	.7	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	6.4	1.4	.0	.0	11.9	.0	2.1	7.4	.0	.0	.0	9.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	1.6	.0	.0	.0	1.6	
5-6	.0	.7	.5	.0	.0	.0	1.2	.0	.0	.9	.0	.0	.0	.9	
7	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.7	1.8	.7	.0	.0	3.2	.0	1.4	2.5	.0	.0	.0	3.9	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	1.4	.7	.0	.0	.0	5.7	
1-2	.0	23.4	6.4	.0	.0	.0	29.8	
3-4	.0	8.5	23.4	1.4	.0	.0	33.3	
5-6	.0	2.1	15.6	.0	.0	.0	17.7	
7	.0	.0	3.5	2.1	.0	.0	5.7	
8-9	.0	.0	5.0	1.4	.0	.0	6.4	
10-11	.0	.0	.7	.7	.0	.0	1.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.5	35.5	55.3	5.7	.0	.0	100.0	141

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	8.8	7.0	6.2	1.2	2.3	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	4
6-7	.0	3.5	4.1	7.6	5.8	2.3	2.3	.6	1.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	49	6
8-9	.0	.6	.6	5.3	6.4	4.1	.6	.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
10-11	.0	.6	1.2	.6	1.2	2.3	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
12-13	.0	.0	1.2	.0	1.2	.0	1.2	1.2	.6	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	13
INDET	.6	.0	1.2	1.8	1.8	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
TOTAL	2	23	26	46	30	21	10	5	10	3	1	0	0	0	0	0	0	0	0	171	6
PCT	1.2	13.5	15.2	23.4	17.5	12.3	5.8	2.9	5.8	1.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1888-1977

AREA 0016 RAROTONGA ISLAND
20.1S 158.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.2	4.2	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0		.0	91.7
NE	6.3	5.6	.0	.0	.0	.0	.0	11.9	2.8	5.6	.0	.0	.0		.0	79.7
E	4.4	4.4	.0	.0	.0	.0	.0	8.8	2.9	.0	2.2	.0	.0		.0	86.0
SE	8.2	4.7	1.7	.0	.0	.0	.0	12.6	1.7	.0	.7	.0	.0		.0	85.0
S	10.3	2.9	4.4	.0	.0	.0	.0	17.6	4.4	.6	.0	.0	.0		.0	77.9
SW	4.0	24.0	.0	.0	.0	.0	.0	28.0	16.0	.6	.0	.0	.0		.0	56.0
W	.0	12.5	.0	.0	.0	.0	.0	12.5	.0	12.5	.0	.0	.0		.0	75.0
NW	.0	3.7	14.8	.0	.0	.0	.0	18.5	.0	.0	.0	.0	.0		.0	81.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	5.9	4.7	1.3	.0	.0	.0	.0	11.9	2.5	1.3	.8	.0	.0		.0	83.5
TOT OBS:	236															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.2	6.2	1.5	.0	.0	.0	.0	13.8	1.5	.0	1.5	.0	.0		.0	83.1
06&09	8.3	5.0	.0	.0	.0	.0	.0	13.3	1.7	.0	1.7	.0	.0		.0	83.3
12&15	6.3	4.6	1.6	.0	.0	.0	.0	9.4	6.3	4.7	.0	.0	.0		.0	79.7
18&21	3.8	3.8	1.9	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0		.0	88.5
TOT PCT	6.2	4.6	1.2	.0	.0	.0	.0	12.0	2.5	1.2	.8	.0	.0		.0	83.4
TOT OBS:	241															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	3.3	3.0	.3	.3	.0		7.7	11.4	7.8	.0	9.6	37.5	3.5	12.5	9.1	.0
NE	.7	7.3	5.3	.8	.0	.0		14.0	10.8	14.7	25.0	7.7	50.0	20.2	8.9	12.1	.0
E	.0	9.5	14.3	3.2	.4	.4		27.7	14.6	30.6	25.0	35.4	.0	28.9	.0	23.3	.0
SE	1.1	5.4	20.2	3.7	1.5	.0		31.9	16.3	28.0	16.7	31.2	.0	26.8	60.7	38.8	.0
S	.0	2.5	5.3	.7	.0	.0		8.5	14.3	5.2	.0	9.2	.0	13.2	17.9	6.0	.0
SW	.0	1.0	1.4	.0	.0	.0		2.4	12.8	.4	.0	3.5	.0	.9	.0	6.0	.0
W	.0	1.3	1.7	.4	.0	.0		3.4	12.6	6.0	.0	1.5	.0	4.8	.0	3.0	.0
NW	.8	.8	1.5	.1	.1	.0		3.3	10.1	5.6	33.3	.4	12.5	.0	.0	1.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0	1.7	.0	1.5	.0	1.8	.0	.0	.0
TOT OBS	12	83	140	24	6	1	266		13.9	58	12	65	2	57	14	58	0
TOT PCT	4.5	31.2	52.6	9.0	2.3	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	4.7	.9	.3	.0		7.7	11.4	6.4	10.4	5.3	9.1
NE	3.6	8.7	1.3	.4	.0		14.0	10.8	16.4	9.0	18.0	12.1
E	2.3	17.4	6.2	1.5	.4		27.7	14.6	29.6	34.3	23.2	23.3
SE	2.9	14.9	10.9	2.7	.4		31.9	16.3	26.1	30.2	33.5	38.8
S	.8	4.2	2.8	.7	.0		8.5	14.3	4.3	9.0	14.1	6.0
SW	.0	1.7	.8	.0	.0		2.4	12.8	.4	3.4	.7	6.0
W	.0	2.7	.7	.0	.0		3.4	12.6	5.0	1.5	3.9	3.0
NW	1.5	1.6	.1	.1	.0		3.3	10.1	10.4	.7	.0	1.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	1.4	1.5	1.4	.0
TOT OBS	37	149	63	15	2	266		13.9	70	67	71	58
TOT PCT	13.9	56.0	23.7	5.6	.8		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1888-1977

AREA 0016 RAROTONGA ISLAND
20.1S 158.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	5.7	36.0	51.4	7.1	2.9	1.4	13.8	100.0	70
06&09	1.5	3.0	29.9	55.2	7.5	3.0	.0	14.1	100.0	67
12&15	1.4	2.8	35.2	53.5	5.6	1.4	.0	12.8	100.0	71
18&21	.0	1.7	29.3	50.0	17.2	1.7	.0	15.3	100.0	58
TOT	3	9	83	140	24	6	1	13.9		266
PCT	1.1	3.4	31.2	52.6	9.0	2.3	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	1.0	1.3	1.8		4.6
NE	2.4	5.0	3.4	3.6		4.8
E	6.8	11.6	9.0	4.9		4.2
SE	2.8	6.3	14.5	7.8		5.6
S	.5	1.5	3.3	1.8		5.8
SW	.1	.8	.1	1.1		6.0
W	1.9	.9	.4	.5		3.1
NW	.1	.5	.1	1.1		6.0
VAR	.0	.0	.0	.0		.0
CALM	.5	.5	.0	.0		2.5
TOT OBS	35	56	64	45	200	4.9
TOT PCT	17.5	28.0	32.0	22.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.4	.4	.4	.5	.5	.0	.0	.0	.0	4.4	
.0	.0	.1	.6	3.0	1.0	.1	.0	.0	.0	9.5	
.0	.0	.5	2.4	4.1	1.6	.9	.5	.0	.0	22.3	
.0	.0	1.0	3.3	9.5	2.4	1.5	.3	.3	.0	13.1	
.0	.0	.0	1.1	2.9	.0	.0	.3	.3	.0	2.5	
.0	.0	.0	.8	.5	.0	.0	.0	.0	.0	.9	
.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	2.8	
.0	.1	.0	.5	.6	.0	.0	.0	.0	.0	.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
0	1	4	18	44	11	5	2	1	0	114	200
.0	.5	2.0	9.0	22.0	5.5	2.5	1.0	.5	.0	57.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5
* OR >3500	3.0	3.4	3.9	3.9	3.9	3.9	3.9	3.9
* OR >2000	8.4	8.9	9.4	9.4	9.4	9.4	9.4	9.4
* OR >1000	24.1	30.5	31.5	31.5	31.5	31.5	31.5	31.5
* OR >600	29.1	38.4	39.4	39.4	39.4	40.9	40.9	40.9
* OR >300	29.6	39.9	40.9	40.9	40.9	42.4	42.4	42.4
* OR >100	29.6	39.9	41.4	41.4	41.4	42.9	42.9	42.9
* OR > 0	29.6	39.9	41.4	41.4	41.4	42.9	42.9	42.9
TOTAL	60	81	84	84	84	87	87	87

TOTAL NUMBER OF OBS: 203

PCT FREQ NH <5/8: 57.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.3	13.7	14.2	10.1	9.5	11.8	8.5	4.7	18.0	.0	211

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1888-1977

AREA 0016 RAROTONGA ISLAND
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	1.3	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	1.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.3	.0	.9	.0	.4	.0	.0	.1	.0	.0	1.7	
2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.9	.0	.4	.0	.0	.1	.0	.0	1.7	
	PCP	.3	1.0	.0	2.2	.6	.1	.0	.4	.0	.0	4.7	
5<10	NO PCP	1.1	1.4	1.5	4.1	1.2	.0	.0	.5	.0	.0	9.8	
	TOT %	1.4	2.3	1.5	6.4	1.8	.1	.0	1.0	.0	.0	14.5	
	PCP	.0	.9	.0	1.7	.2	.6	.4	.0	.0	.0	3.8	
10+	NO PCP	6.0	12.0	24.9	23.1	4.8	1.9	3.0	1.8	.0	1.3	78.7	
	TOT %	6.0	12.9	24.9	24.8	5.0	2.6	3.4	1.8	.0	1.3	82.6	
	TOT OBS												235
	TOT PCT	7.7	15.2	29.5	31.2	7.2	2.7	3.4	2.9	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.9	.0	.0	.0	.0	.0	.0		.9	
	22+	.0	.0	.4	.0	.0	.0	.0	.0	.0		.4	
	TOT %	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	1.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.3	.0	.9	.0	.4	.0	.0	.1	.0		1.7	
	TOT %	.3	.0	.9	.0	.4	.0	.0	.1	.0	.0	1.7	
	0-3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
5<10	4-10	.2	1.1	.6	1.1	.3	.1	.0	.0	.0		3.4	
	11-21	.6	1.1	.0	3.5	1.2	.0	.0	.9	.0		7.2	
	22+	.3	.0	.9	1.8	.3	.0	.0	.1	.0		3.4	
	TOT %	1.4	2.3	1.5	6.4	1.8	.1	.0	1.0	.0	.0	14.5	
	0-3	.4	.4	.0	1.3	.0	.0	.0	.4	.0	1.3	3.8	
10+	4-10	3.2	6.7	7.7	4.3	1.5	1.1	1.5	1.0	.0		26.8	
	11-21	2.3	4.9	14.9	16.1	3.5	1.5	1.5	.4	.0		45.1	
	22+	.0	.9	2.3	3.2	.0	.0	.4	.0	.0		6.8	
	TOT %	6.0	12.9	24.9	24.8	5.0	2.6	3.4	1.8	.0	1.3	82.6	
	TOT OBS												235
	TOT PCT	7.7	15.2	28.5	31.2	7.2	2.7	3.4	2.9	.0	1.3	100.0	

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PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1888-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	9.3	16.7	7.4	.0	1.9	1.9	.0	37.0	63.0	54
06&09	.0	1.8	3.6	5.5	21.8	7.3	1.8	.0	.0	.0	41.8	58.2	55
12&15	.0	.0	.0	9.8	27.5	3.9	2.0	2.0	.0	.0	45.1	54.9	51
18&21	.0	.0	4.2	12.5	20.8	2.1	6.3	.0	.0	.0	45.8	54.2	48
TOT	0	1	4	19	45	11	5	2	1	0	88	120	208
PCT	.0	.5	1.9	9.1	21.6	5.3	2.4	1.0	.5	.0	42.3	57.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.1	.0	.0	3.1	10.8	83.1	65
06&09	1.7	.0	.0	1.7	11.9	84.7	59
12&15	.0	.0	.0	1.6	20.3	78.1	64
18&21	.0	.0	.0	.0	17.3	82.7	52
TOT	3	0	0	4	36	197	240
PCT	1.3	.0	.0	1.7	15.0	82.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.8	11.3	26.4	62.3	53
06&09	.0	5.8	9.6	32.7	57.7	52
12&15	.0	.0	12.0	34.0	54.0	50
18&21	.0	4.2	16.7	29.2	54.2	48
TOT	0	7	25	62	116	203
PCT	.0	3.4	12.3	30.5	57.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.4	.9	1.3	.9	.9	10	4.5
75/79	.0	.0	.0	.0	2.2	12.9	16.1	9.4	91	40.6
70/74	.0	.0	.0	1.3	12.9	9.4	15.2	9.4	108	48.2
65/69	.0	.0	.0	.4	.4	1.3	3.1	1.3	15	6.7
TOTAL	0	0	0	5	37	56	79	47	224	100.0
PCT	.0	.0	.0	2.2	16.5	25.0	35.3	21.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.0	1.2	.4	1.3	.0	.0	.0	.4	.0	.0
5.0	11.4	15.6	4.6	.4	.9	1.7	.6	.0	.4
1.0	2.1	12.3	21.5	6.8	1.5	1.9	1.1	.0	.0
.0	.0	1.3	4.0	.8	.1	.4	.0	.0	.0
7.0	14.7	29.7	31.5	8.0	2.5	4.0	2.1	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	81	81	76	70	69	69	75.8	71
06&09	78	77	77	75	69	65	65	74.0	65
12&15	78	77	77	74	68	67	67	73.1	71
18&21	78	77	77	73	69	68	68	73.2	58
TOT	82	81	79	74	68	67	65	74.1	265

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.3	23.3	23.3	26.7	23.3	78	60
06&09	.0	1.7	15.0	26.7	31.7	25.0	81	60
12&15	.0	1.8	10.9	23.6	38.2	25.5	82	55
18&21	.0	1.9	17.0	26.4	45.3	9.4	79	53
TOT	0	5	58	57	80	48	80	228

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PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1948-1977

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.5	1	.0	.5
9	.0	.0	.0	.5	.9	3	.0	1.4
4	.0	.0	.0	.5	.0	1	.0	.5
3	.0	.5	.0	1.4	.0	4	.0	1.9
2	.0	.5	.9	1.9	.0	7	.0	3.2
1	.0	.9	2.4	2.8	.0	13	.5	5.7
0	.0	.9	4.7	6.1	.9	27	.0	12.7
-1	.0	1.4	9.0	9.8	.0	30	.0	14.2
-2	.5	1.4	10.8	5.7	.0	39	.0	18.4
-3	.0	2.4	5.7	.9	.0	19	.0	9.0
-4	.9	.9	4.2	.9	.0	15	.5	6.6
-5	.5	4.7	1.4	1.4	.0	17	.0	8.0
-6	.9	6.1	1.9	.0	.0	19	.0	9.0
-7/-8	.5	2.8	1.9	.0	.0	11	.0	5.2
-9/-10	.5	1.9	.0	.0	.0	5	.0	2.4
-11/-13	.0	.5	.0	.0	.0	1	.0	.5
TOTAL	8	53	91	55	5	212	2	210
PCT	3.8	25.0	42.9	25.9	2.4	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.7	.5	.0	.0	.0	.0	1.2
3-4	.0	.0	1.0	.0	.0	.0	1.0
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	.5	1.7	.0	.0	.0	2.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.7	.0	.0	.0	1.4
1-2	.0	3.6	.9	.0	.0	.0	4.4
3-4	.0	2.7	3.1	.0	.0	.0	5.8
5-6	.0	.0	3.1	.0	.0	.0	3.1
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.0	8.5	.0	.0	.0	15.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	4.6	4.3	.0	.0	.0	8.8
3-4	.0	1.9	7.3	.0	.0	.0	9.2
5-6	.0	.5	8.8	2.6	.0	.0	11.9
7	.0	.0	1.4	.7	.0	.0	2.0
8-9	.0	.0	.7	.7	.0	.0	1.4
10-11	.0	.0	.5	.5	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.7	.0	.7
17-19	.0	.0	.0	.7	.0	.7	1.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.7	23.0	5.1	.7	.7	37.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.7	2.2	2.4	.0	.0	.0	5.3
3-4	.0	2.9	7.0	.0	.0	.0	9.9
5-6	.0	.2	6.8	.9	.0	.0	7.8
7	.0	.0	2.0	1.4	.0	.0	3.4
8-9	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.0	.9	.7	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.7	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.7	.0	.7
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.1	18.2	3.9	2.7	.0	31.6

PERIOD: (OVER-ALL) 1963-1977

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TABLE 1d (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.7	.0	.0	.0	1.2	.0	.0	.7	.0	.0	.0	.7
1-2	.0	.0	1.4	.0	.0	.0	1.4	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.5	.7	.0	.0	.0	1.2	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	1.5	.7	.0	.0	2.2	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	4.3	1.2	.0	.0	6.5	.0	.9	.9	.0	.0	.0	1.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.7	
1-2	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.5	.0	.7	.0	.0	1.2	.0	.2	.0	.0	.0	.0	.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.9	.0	.7	.0	.0	2.6	.0	.9	.7	.0	.0	.0	1.5	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.7	4.0	2.0	.0	.0	.0	6.7	
1-2	1.3	13.4	8.7	.0	.0	.0	23.5	
3-4	.0	8.7	18.8	.7	.0	.0	28.2	
5-6	.0	.7	21.5	4.0	.0	.0	26.2	
7	.0	.0	4.0	2.0	.0	.0	6.0	
8-9	.0	.0	.7	2.0	.0	.0	2.7	
10-11	.0	.0	.7	1.3	.7	.0	2.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	1.3	.0	1.3	
17-19	.0	.0	.0	.7	.0	.7	1.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.7	.0	.7	
26-32	.0	.0	.0	.0	.7	.0	.7	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								149
TOT PCT	2.0	26.8	56.4	10.7	3.4	.7	100.0	

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	5.0	6.1	7.7	2.8	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	4
6-7	.0	.0	3.9	12.2	6.1	5.0	1.7	.6	.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	7
8-9	.0	.0	1.1	3.3	4.4	2.8	2.8	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	8
10-11	.0	.0	.0	2.8	.6	1.7	1.7	.0	.0	.0	.6	.6	.6	.0	.0	.0	.0	.0	.0	15	10
12-13	.0	.0	.6	.0	.6	.6	.6	.6	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	7	12
>13	.0	.0	.0	.0	.6	2.2	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	9
INDET	.0	1.1	1.7	3.9	2.2	2.2	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
TOTAL	1	11	24	54	31	29	14	4	5	4	1	1	2	0	0	0	0	0	0	181	7
PCT	.6	6.1	13.3	29.8	17.1	16.0	7.7	2.2	2.8	2.2	.6	.6	1.1	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1926-1977

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	10.5	.0	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	.0	.0	89.5
NE	.0	2.8	3.8	.0	.0	.0	.0	6.6	3.8	.0	.0	.0	.0	.0	.0	89.6
E	1.4	3.1	.0	.0	.0	.0	.0	4.5	2.4	.0	.7	.0	.0	.0	.0	92.3
SE	3.4	3.0	.9	.0	.0	.0	.0	7.3	3.9	.0	1.7	.0	.0	.0	.0	87.1
S	.0	10.2	2.3	.0	.0	.0	.0	12.5	8.0	.0	4.5	.0	.0	.0	.0	75.0
SW	.0	.0	15.4	.0	.0	.0	.0	15.4	3.8	.0	7.7	.0	.0	.0	.0	73.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.5	3.9	1.5	.0	.0	.0	.0	6.9	3.4	.0	1.5	.0	.0	.0	.0	88.2
TOT OBS:	203															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00603	2.4	2.4	2.4	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	.0	92.9
06609	2.0	2.0	.0	.0	.0	.0	.0	4.0	8.0	.0	2.0	.0	.0	.0	.0	86.0
12615	1.6	7.8	.0	.0	.0	.0	.0	9.4	3.1	.0	3.1	.0	.0	.0	.0	84.4
18621	.0	1.9	3.8	.0	.0	.0	.0	5.8	1.9	.0	.0	.0	.0	.0	.0	92.3
TOT PCT	1.4	3.8	1.4	.0	.0	.0	.0	6.7	3.4	.0	1.4	.0	.0	.0	.0	88.5
TOT OBS:	208															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	2.6	1.7	.0	.0	.0		5.5	8.8	8.1	15.4	3.3	.0	3.6	.0	7.5	.0
NE	.3	7.6	4.3	.0	.0	.0		12.2	9.5	16.9	7.7	10.4	.0	9.5	8.3	14.6	50.0
E	.5	17.8	12.2	4.4	.0	.0		34.9	12.6	24.3	34.6	40.6	100.0	33.2	47.2	32.9	50.0
SE	.0	9.4	14.6	4.0	.4	.0		28.5	15.1	31.8	32.7	26.9	.0	28.6	31.9	27.1	.0
S	.4	3.0	7.7	.0	.0	.0		11.2	13.1	8.1	9.6	12.3	.0	19.1	9.7	6.3	.0
SW	.4	.2	1.7	.8	.0	.0		3.1	15.9	5.4	.0	.9	.0	.5	2.8	7.1	.0
W	.4	1.2	.0	.0	.0	.0		1.6	7.1	2.7	.0	.0	.0	.0	.0	4.6	.0
NW	.4	.8	.0	.0	.0	.0		1.3	7.3	.0	.0	1.9	.0	3.6	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	2.7	.0	3.8	.0	1.8	.0	.0	.0
TOT OBS	13	102	101	22	1	0	239		12.5	37	13	53	1	55	18	60	2
TOT PCT	5.4	42.7	42.3	9.2	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	3.6	.4	.0	.0		5.5	8.8	10.0	3.2	2.7	7.3
NE	3.6	7.4	1.3	.0	.0		12.2	9.5	14.5	10.2	9.2	15.7
E	4.9	20.5	9.2	.3	.0		34.9	12.6	27.0	41.7	36.6	33.5
SE	1.3	16.0	10.3	.5	.4		28.5	15.1	32.0	26.4	29.5	26.2
S	1.2	7.1	2.9	.0	.0		11.2	13.1	8.5	12.0	16.8	6.0
SW	.5	1.6	.2	.8	.0		3.1	15.9	4.0	.9	1.0	6.9
W	.4	1.2	.0	.0	.0		1.6	7.1	2.0	.0	.0	4.4
NW	.4	.8	.0	.0	.0		1.3	7.3	.0	1.9	2.7	.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	2.0	3.7	1.4	.0
TOT OBS	37	139	58	4	1	239		12.5	50	54	73	62
TOT PCT	15.5	58.2	24.3	1.7	.4		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	4.0	30.0	50.0	12.0	2.0	.0	14.0	100.0	50
06&09	3.7	.0	53.7	37.0	5.6	.0	.0	11.2	100.0	54
12&15	1.4	5.5	47.9	37.0	8.2	.0	.0	11.5	100.0	73
18&21	.0	4.8	37.1	46.8	11.3	.0	.0	13.8	100.0	62
TOT	4	9	102	101	22	1	0	12.5		239
PCT	1.7	3.8	42.7	42.3	9.2	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	1.1	2.4	1.2		5.5
NE	2.0	3.5	7.4	2.3		5.2
E	6.7	8.2	10.0	5.8		4.7
SE	3.2	8.2	13.2	4.7		5.1
S	1.7	2.7	4.7	3.0		5.4
SW	.0	.6	1.8	.6		6.3
W	.6	.0	1.1	.0		4.1
NW	.0	.0	.6	.0		5.0
VAR	.0	.0	.0	.0		.0
CALM	2.4	.0	.0	.0		1.2
TOT OBS	28	40	68	29	165	5.0
TOT PCT	17.0	24.2	41.2	17.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.6	.6	.0	1.2	.0	.0	.0	.0	2.7	
NE	.6	.0	.8	1.4	1.8	1.2	.0	.0	.0	.0	9.4	
E	.0	.0	.5	2.1	4.5	2.9	.0	.0	.0	.0	20.6	
SE	.6	.0	.6	.9	7.3	2.3	.0	.0	.0	.0	17.6	
S	.0	.0	1.1	.5	3.3	1.8	.0	.0	.0	.0	5.5	
SW	.0	.0	.2	.0	1.2	.9	.0	.0	.0	.0	.8	
W	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.1	
NW	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
TOT OBS	2	0	6	9	31	18	0	0	0	0	99	165
TOT PCT	1.2	.0	3.6	5.5	18.8	10.9	.0	.0	.0	.0	60.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >2000	8.9	11.3	11.3	11.3	11.3	11.3	11.3	11.3
* OR >1000	25.0	30.4	30.4	30.4	30.4	30.4	30.4	30.4
* OR >600	29.2	35.7	35.7	35.7	35.7	35.7	35.7	35.7
* OR >300	31.5	38.7	39.3	39.3	39.3	39.3	39.3	39.3
* OR >150	31.5	38.7	39.3	39.3	39.3	39.3	39.3	39.3
* OR > 0	32.1	39.9	40.5	40.5	40.5	40.5	40.5	40.5
TOTAL	54	67	68	68	68	68	68	68

TOTAL NUMBER OF OBS: 168 PCT FREQ NH <5/8: 59.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.1	12.8	15.6	19.4	12.8	7.8	10.6	7.2	12.2	.6	180

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.4	.6	.0	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.4	1.1	.0	.5	.0	.0	.0	.0	.0	2.0	
5<10	PCP	.5	.0	1.0	2.1	1.4	.0	.0	.0	.0	.0	4.9	
	NO PCP	.0	.0	2.6	3.2	1.8	.2	.0	.0	.0	.0	7.9	
	TOT %	.5	.0	3.6	5.3	3.2	.2	.0	.0	.0	.0	12.8	
10+	PCP	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	1.0	
	NO PCP	4.2	12.2	30.7	23.3	7.1	2.5	1.4	1.0	.0	2.0	84.2	
	TOT %	4.2	12.7	30.7	23.3	7.1	3.0	1.4	1.0	.0	2.0	85.2	
	TOT OBS												203
	TOT PCT	4.7	13.1	35.3	28.6	10.8	3.2	1.4	1.0	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.4	1.1	.0	.5	.0	.0	.0	.0		2.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.4	1.1	.0	.5	.0	.0	.0	.0	.0	2.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	2.7	.7	.5	.0	.0	.0	.0		3.9	
	11-21	.5	.0	.5	3.4	2.7	.2	.0	.0	.0		7.4	
	22+	.0	.0	.4	1.1	.0	.0	.0	.0	.0		1.5	
	TOT %	.5	.0	3.6	5.3	3.2	.2	.0	.0	.0	.0	12.7	
10+	0-3	.5	.2	.2	.0	.5	.5	.5	.5	.0	2.0	4.9	
	4-10	2.2	8.3	15.2	8.7	2.2	.2	.9	.5	.0		38.2	
	11-21	1.5	4.5	11.0	11.6	4.4	1.7	.0	.0	.0		34.8	
	22+	.0	.0	4.0	2.8	.0	.5	.0	.0	.0		7.4	
	TOT %	4.2	13.1	30.5	23.2	7.1	2.9	1.3	1.0	.0	2.0	85.3	
	TOT OBS												204
	TOT PCT	4.7	13.5	35.2	28.4	10.8	3.2	1.3	1.0	.0	2.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1950-1977
(OVER-ALL) 1926-1977

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.7	.0	2.7	5.4	13.5	8.1	.0	.0	.0	.0	32.4	67.6	37
06&09	.0	.0	4.5	.0	15.9	9.1	.0	.0	.0	.0	29.5	70.5	44
12&15	2.0	.0	2.0	4.1	18.4	16.3	.0	.0	.0	.0	42.9	57.1	49
18&21	.0	.0	4.1	10.2	22.4	8.2	.0	.0	.0	.0	44.9	55.1	49
TOT	2	0	6	9	32	19	0	0	0	0	68	111	179
PCT	1.1	.0	3.4	5.0	17.9	10.6	.0	.0	.0	.0	38.0	62.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.0	14.0	86.0	43
06&09	.0	.0	.0	.0	10.0	90.0	50
12&15	.0	.0	.0	4.7	17.2	78.1	64
18&21	.0	.0	.0	1.9	7.7	90.4	52
TOT	0	0	0	4	26	179	209
PCT	.0	.0	.0	1.9	12.4	85.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.9	5.7	11.4	22.9	65.7	35
06&09	.0	5.0	5.0	27.5	67.5	40
12&15	2.2	4.3	10.9	37.0	52.2	46
18&21	.0	4.3	14.9	31.9	53.2	47
TOT	2	8	18	51	99	168
PCT	1.2	4.8	10.7	30.4	58.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	2.7	4.4	1.1	.0	15	8.2
75/79	.0	.0	.0	.0	6.0	15.3	20.8	6.0	88	48.1
70/74	.0	.0	.0	1.1	8.2	11.5	10.4	10.4	76	41.5
65/69	.0	.0	.0	.0	.0	1.1	.5	.5	4	2.2
TOTAL	0	0	0	2	31	59	60	31	183	100.0
PCT	.0	.0	.0	1.1	16.9	32.2	32.8	16.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	1.8	3.6	1.8	.0	.0	.0	.0	.0	.5
3.6	8.5	19.5	11.6	1.5	.8	1.0	.5	.0	1.1
.5	3.6	12.2	12.6	10.2	.8	.5	.5	.0	.5
.0	.0	.0	1.6	.0	.5	.0	.0	.0	.0
4.6	13.8	35.2	27.6	11.7	2.2	1.5	1.1	.0	2.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	83	82	82	77	71	69	69	76.3	50
06&09	83	82	79	76	70	68	68	75.4	56
12&15	80	79	77	73	70	68	68	73.8	73
18&21	80	79	79	74	71	58	58	74.1	63
TOT	83	82	80	75	70	68	58	74.8	242

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.7	32.4	45.9	8.1	10.8	74	37
06&09	.0	.0	8.7	34.8	47.8	8.7	80	46
12&15	.0	1.7	15.5	31.0	32.8	19.0	79	58
18&21	.0	.0	14.6	18.8	41.7	25.0	82	48
TOT	0	2	32	60	64	31	79	189

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.5	1	.0	.5
6	.0	.0	.0	.0	.5	1	.0	.5
5	.0	.0	.5	.5	1.1	4	.0	2.1
4	.0	.0	.0	.5	.0	1	.0	.5
3	.0	.0	.5	1.1	1.6	6	.0	3.2
2	.0	.5	.0	3.7	1.1	10	.0	5.3
1	.0	.5	2.1	6.3	.0	17	.5	8.5
0	.0	.5	5.3	4.8	.0	20	.0	10.6
-1	.0	.5	9.0	5.8	.0	29	.5	14.8
-2	.0	1.6	8.5	4.2	.5	28	.0	14.8
-3	.0	1.6	7.9	.5	.0	19	.0	10.1
-4	.0	4.8	4.2	.0	.0	17	.0	9.0
-5	.0	5.3	3.7	.5	.0	18	.0	9.5
-6	.5	2.6	2.1	.0	.0	10	.5	4.8
-7/-8	.0	2.1	1.6	.0	.0	7	.0	3.7
-9/-10	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	2	38	86	53	10	189	3	186
PCT	1.1	20.1	45.5	28.0	5.3	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.7	.0	.0	.0	2.0
3-4	.0	.7	.7	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	3.0	.0	.0	.0	5.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	5.0	.0	.0	.0	.0	5.0
3-4	.0	2.0	3.0	.0	.0	.0	5.0
5-6	.0	.9	1.9	.0	.0	.0	2.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.7	4.8	.0	.0	.0	13.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	9.6	1.3	.0	.0	.0	10.9
3-4	.0	4.3	3.3	1.5	.0	.0	9.1
5-6	.0	2.6	4.1	2.6	.0	.0	9.3
7	.0	.0	2.6	.0	.0	.0	2.6
8-9	.0	.0	.7	.7	.0	.0	1.5
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.0	12.0	5.4	.0	.0	34.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	3.7	1.7	.0	.0	.0	5.4
3-4	.0	2.6	5.0	.7	.0	.0	8.3
5-6	.0	.9	4.1	1.1	.0	.0	6.1
7	.0	.0	3.3	.7	.0	.0	4.1
8-9	.0	.7	1.5	.7	.0	.0	3.0
10-11	.0	.0	.7	.9	.0	.0	1.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.9	16.3	4.3	.0	.0	29.4

PERIOD: (OVER-ALL) 1963-1977 SEPTEMBER AREA 0016 RAROTONGA ISLAND

TABLE 18 (CONT) 20.0S 158.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.6	.0	.0	.0	.0	1.3
1-2	.0	1.1	2.0	.0	.0	.0	3.1
3-4	.0	.7	2.8	.0	.0	.0	3.5
5-6	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.4	6.7	.0	.0	.0	9.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.2	1.7	.0	.0	.0	1.9
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	2.4	.0	.0	.0	2.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.7	.6	.0	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	.6	.0	.0	.0	.0	1.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	.0	.0	.0	.0	.0	.7	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.7	.0	.0	.0	.0	.7	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	.7	.0	.0	.0	.0	1.5	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	2.9	.0	.0	.0	.0	7.3	
1-2	.7	21.9	7.3	.0	.0	.0	29.9	
3-4	.0	10.9	15.3	2.2	.0	.0	28.5	
5-6	.0	4.4	11.7	3.6	.0	.0	19.7	
7	.0	.0	6.6	.7	.0	.0	7.3	
8-9	.0	.7	2.9	1.5	.0	.0	5.1	
10-11	.0	.0	.7	1.5	.0	.0	2.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.1	40.9	44.5	9.5	.0	.0	100.0	137

PERIOD: (OVER-ALL) 1950-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	4.4	5.6	6.9	5.6	3.1	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	5
6-7	.0	.6	2.5	10.0	3.8	3.1	2.5	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	7
8-9	.0	.0	3.1	6.9	6.9	2.5	1.3	2.5	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	38	7
10-11	.0	.6	1.3	1.9	1.3	.6	.6	.6	1.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8
12-13	.0	.0	2.5	.6	.0	.0	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
>13	.0	.0	.0	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDET	.0	.6	1.3	1.9	1.3	.6	1.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
TOTAL	1	10	26	45	32	16	11	6	6	6	0	1	0	0	0	0	0	0	0	160	7
PCT	.6	6.3	16.3	28.1	20.0	10.0	6.9	3.8	3.8	3.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1932-1977
(OVER-ALL) 1888-1977

AREA 0016 RAROTONGA ISLAND
20.0S 158.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	36.7	13.3	.0	.0	.0	.0	.0	50.0	.0	.0	6.7	.0	.0	.0	.0	43.3
NE	.0	1.9	5.4	.0	.0	.0	.0	6.8	2.7	5.4	2.7	.0	.0	.0	.0	82.4
E	.0	5.9	2.2	.0	.0	.0	.0	8.1	3.4	.0	3.1	.0	.0	.0	.0	85.5
SE	6.3	5.9	1.3	.0	.0	.0	.0	13.5	5.0	1.3	4.3	.0	.0	.0	.0	77.2
S	10.3	4.6	.0	.0	.0	.0	.0	14.9	8.0	.0	.0	.0	.0	.0	.0	77.0
SW	11.8	11.8	.0	.0	.0	.0	.0	23.5	11.8	.0	.0	.0	.0	.0	.0	64.7
W	.0	.0	.0	.0	.0	.0	.0	.0	57.1	.0	.0	.0	.0	.0	.0	42.9
NW	6.7	20.7	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	66.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	66.7
TOT PCT	5.2	0.1	1.7	.0	.0	.0	.0	13.0	4.8	.9	3.0	.0	.0	.0	.0	78.7
TOT OBS:	230															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.3	0.3	.0	.0	.0	.0	.0	12.5	4.2	.0	2.1	.0	.0	.0	.0	81.3
06&09	7.4	5.6	3.7	.0	.0	.0	.0	16.7	1.9	.0	.0	.0	.0	.0	.0	81.5
12&15	2.7	4.0	1.3	.0	.0	.0	.0	8.0	6.7	2.7	5.3	.0	.0	.0	.0	78.7
18&21	5.6	9.3	1.9	.0	.0	.0	.0	16.7	5.6	.0	3.7	.0	.0	.0	.0	74.1
TOT PCT	5.2	0.1	1.7	.0	.0	.0	.0	13.0	4.8	.9	3.0	.0	.0	.0	.0	78.8
TOT OBS:	231															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	.9	1.9	.0	.0	.0		3.3	12.3	1.9	.0	2.8	.0	2.7	5.6	4.6	.0
NE	1.3	2.7	3.1	.7	.0	.0		7.8	12.0	10.6	9.1	6.5	.0	7.1	4.9	9.6	.0
E	1.5	13.0	19.2	5.1	.3	.0		39.0	13.6	36.3	43.2	45.6	100.0	40.2	37.5	32.7	.0
SE	.1	8.9	17.9	6.0	.1	.0		33.0	15.6	33.8	40.9	27.4	.0	29.5	42.4	35.0	.0
S	1.1	3.3	4.5	.4	.0	.0		9.3	12.0	7.5	6.8	7.7	.0	11.6	9.7	10.4	.0
SW	.4	.6	1.5	.7	.0	.0		3.2	14.7	9.4	.0	4.8	.0	1.8	.0	1.5	.0
W	.0	.4	.3	.4	.0	.0		1.0	14.5	.0	.0	1.6	.0	1.8	.0	1.2	.0
NW	.0	.7	1.0	.0	.0	.0		1.8	14.0	.6	.0	2.0	.0	3.6	.0	1.9	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	.0	.0	1.6	.0	1.8	.0	3.1	.0
TOT OBS	17	83	134	36	1	0	271		13.8	40	11	62	1	56	36	65	0
TOT PCT	6.3	30.6	49.4	13.3	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.0	1.0	1.3	.0	.0		3.3	12.3	1.5	2.8	3.8	4.6
NE	2.0	3.3	2.1	.4	.0		7.8	12.0	10.3	6.3	6.3	9.6
E	6.6	18.7	13.0	.6	.0		39.0	13.6	37.7	46.4	39.1	32.7
SE	2.7	14.3	14.5	1.6	.0		33.0	15.6	35.3	27.0	34.5	35.0
S	2.5	4.3	2.1	.4	.0		9.3	12.0	7.4	7.5	10.9	10.4
SW	1.0	1.5	.0	.7	.0		3.2	14.7	7.4	4.8	1.1	1.5
W	.4	.3	.4	.0	.0		1.0	14.5	.0	1.6	1.1	1.2
NW	.0	1.2	.6	.0	.0		1.8	14.0	.3	2.0	2.2	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	.0	1.6	1.1	3.1
TOT OBS	48	121	92	10	0	271		13.8	51	63	92	65
TOT PCT	17.7	44.6	33.9	3.7	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	2.0	27.5	90.8	9.8	.0	.0	14.6	100.0	51
06&09	1.6	7.9	25.4	42.9	22.2	.0	.0	15.0	100.0	63
12&15	1.1	7.6	34.8	46.7	8.7	1.1	.0	12.5	100.0	92
18&21	3.1	.0	32.3	30.8	13.8	.0	.0	13.9	100.0	65
TOT	4	13	83	134	36	1	0	13.8		271
PCT	1.5	4.8	30.6	49.4	13.3	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.6	1.4	1.0		6.4
NE	2.9	2.5	2.3	1.4		4.0
E	10.2	8.7	11.3	9.1		4.8
SE	5.9	8.6	7.3	6.6		4.6
S	2.5	.7	3.2	3.5		5.5
SW	1.1	.0	2.5	1.1		6.0
W	.0	.4	.0	1.1		6.9
NW	.0	.7	.1	1.7		6.7
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.1	.6		5.6
TOT OBS	41	40	53	47	181	5.0
TOT PCT	22.7	22.1	29.3	26.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.4	1.0	.4	.0	.0	.0	1.1	
NE	.0	.0	.0	.7	.4	.6	.1	.0	.0	.0	7.3	
E	.0	.0	1.0	4.6	8.1	.6	.6	.0	.0	.0	25.1	
SE	.1	.0	.3	4.3	4.1	.9	.0	.0	.0	.0	19.1	
S	.4	.0	.4	2.1	2.9	.3	.0	.0	.0	.0	3.7	
SW	.0	.0	.0	.6	2.2	.3	.0	.0	.0	.0	1.7	
W	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	.4	
NW	.0	.0	.0	.0	1.1	.1	.0	.0	.0	.0	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.6	
TOT OBS	1	0	3	23	38	6	1	0	0	0	109	181
TOT PCT	.6	.0	1.7	12.7	21.0	3.3	.6	.0	.0	.0	60.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >2000	3.3	3.9	3.9	3.9	3.9	3.9	3.9	3.9
* OR >1000	20.6	23.3	24.4	24.4	24.4	24.4	24.4	24.4
* OR >600	25.0	35.6	37.2	37.2	37.2	37.2	37.2	37.2
* OR >300	25.6	36.7	38.9	38.9	38.9	38.9	38.9	38.9
* OR >150	25.6	36.7	38.9	38.9	38.9	38.9	38.9	38.9
* OR > 0	25.6	36.7	39.4	39.4	39.4	39.4	39.4	39.4
TOTAL	46	66	71	71	71	71	71	71

TOTAL NUMBER OF OBS: 180

PCT FREQ NH <5/8: 60.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.6	11.6	18.5	12.7	15.3	6.9	7.4	7.9	18.0	.0	189

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.4	.7	.7	.0	.0	.0	.0	.4	2.2	
	NO PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.4	1.1	.7	.0	.0	.0	.0	.4	2.6	
5<10	PCP	1.3	.4	1.5	2.9	.3	.4	.0	.0	.0	.0	7.0	
	NO PCP	.2	.8	8.1	7.3	1.5	.0	.4	.0	.0	.0	18.3	
	TOT %	1.5	1.2	9.6	10.3	1.9	.4	.4	.0	.0	.0	25.3	
10+	PCP	.3	.1	1.2	.9	.4	.4	.0	.5	.0	.0	3.9	
	NO PCP	1.4	6.8	27.4	20.4	6.6	2.8	.3	1.1	.0	.9	67.7	
	TOT %	1.7	6.9	28.6	21.3	7.0	3.3	.3	1.6	.0	.9	71.6	
	TOT OBS												229
	TOT PCT	3.3	8.1	38.6	33.1	9.5	3.7	.8	1.6	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.0	.4	.1	.3	.0	.0	.0	.0		.9	
	11-21	.0	.0	.0	.5	.3	.0	.0	.0	.0		.9	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	TOT %	.0	.0	.4	1.1	.7	.0	.0	.0	.0	.4	2.6	
5<10	0-3	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.9	
	4-10	.4	.0	2.2	2.6	.4	.4	.4	.0	.0		6.5	
	11-21	.9	.5	4.8	5.4	1.0	.0	.0	.0	.0		12.6	
	22+	.0	.4	2.6	2.2	.0	.0	.0	.0	.0		5.2	
	TOT %	1.5	1.2	9.6	10.2	1.8	.4	.4	.0	.0	.0	25.2	
10+	0-3	.0	.7	1.1	.0	.4	.4	.0	.0	.0	.9	3.5	
	4-10	.3	2.6	10.1	6.1	2.4	.2	.0	.9	.0		22.6	
	11-21	1.4	3.2	15.2	12.0	3.7	1.7	.3	.8	.0		38.3	
	22+	.0	.4	2.1	3.2	.4	.9	.4	.0	.0		7.4	
	TOT %	1.7	6.8	28.5	21.2	7.0	3.3	.8	1.6	.0	.9	71.7	
	TOT OBS												230
	TOT PCT	3.3	8.0	38.5	32.9	9.5	3.7	1.2	1.6	.0	1.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	10.3	30.8	10.3	.0	.0	.0	.0	51.3	48.7	39
06&09	.0	.0	.0	18.0	20.0	2.0	.0	.0	.0	.0	40.0	60.0	50
12&15	.0	.0	2.1	12.5	14.6	.0	2.1	.0	.0	.0	31.3	68.8	48
18&21	4.1	.0	4.2	8.3	18.8	2.1	.0	.0	.0	.0	35.4	64.6	48
TOT	1	0	3	23	38	6	1	0	0	0	72	113	185
PCT	.5	.0	1.6	12.4	20.5	3.2	.5	.0	.0	.0	38.9	61.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	2.1	.0	4.2	29.2	64.6	48
06&09	.0	.0	.0	.0	18.5	81.5	54
12&15	.0	.0	.0	.0	30.7	69.3	75
18&21	.0	.0	.0	7.4	22.2	70.4	54
TOT	0	1	0	6	59	165	231
PCT	.0	.4	.0	2.6	25.5	71.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	12.8	38.5	48.7	39
06&09	.0	.0	18.8	22.9	58.3	48
12&15	.0	2.1	14.9	17.0	68.1	47
18&21	2.2	6.5	17.4	17.4	65.2	46
TOT	1	4	29	42	109	180
PCT	.6	2.2	16.1	23.3	60.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.0	.5	.0	1	.5
80/84	.0	.0	.0	.0	.5	7.0	2.0	.0	19	9.5
75/79	.5	.0	.5	.5	7.5	16.6	30.7	6.5	125	62.8
70/74	.0	.0	.0	.0	3.0	6.5	6.5	9.5	51	25.6
65/69	.0	.0	.0	.0	.5	.0	.5	.5	3	1.5
TOTAL	1	0	1	1	23	60	80	33	199	100.0
PCT	.5	.0	.5	.5	11.6	30.2	40.2	16.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
.4	1.4	2.9	3.3	.6	.4	.0	.1	.0	.5
2.3	6.2	25.5	17.6	4.9	2.5	.9	1.8	.0	1.0
.0	.6	8.7	9.2	5.7	1.0	.5	.0	.0	.0
.0	.0	.0	.6	.4	.5	.0	.0	.0	.0
2.6	8.7	37.1	30.9	11.6	4.4	1.4	1.9	.0	1.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	83	83	76	72	68	68	76.7	53
06&09	81	80	78	76	71	69	69	75.5	62
12&15	80	79	78	74	69	68	68	73.9	92
18&21	85	84	81	76	71	70	70	75.8	62
TOT	85	83	81	75	70	68	68	75.3	269

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	2.4	2.4	7.1	40.5	33.3	14.3	78	42
06&09	.0	1.9	13.5	26.9	40.4	17.3	80	52
12&15	.0	.0	12.7	23.6	43.6	20.0	82	55
18&21	.0	.0	12.0	32.0	42.0	14.0	81	50
TOT	1	2	23	60	80	33	80	199

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
6	.0	.0	.0	1.0	.0	.0	2	.0	1.0
5	.0	.0	.5	.0	1.4	.5	5	.0	2.4
4	.0	.0	.0	.0	.5	.0	1	.0	.5
3	.0	.0	.5	.5	1.4	.0	5	.0	2.4
2	.0	.0	1.4	1.9	.5	.0	8	.0	3.9
1	.0	.5	2.9	3.4	.5	.0	15	1.0	6.3
0	.0	1.0	1.4	5.8	.5	.0	18	.0	8.7
-1	.5	.5	4.3	6.8	.5	.0	26	.5	12.1
-2	.0	2.9	10.6	5.8	1.0	.0	42	.5	19.8
-3	.0	2.4	9.2	3.4	.0	.0	31	.5	14.5
-4	.0	1.0	8.7	1.4	.0	.0	23	.5	10.6
-5	.0	1.9	2.4	1.0	.0	.0	11	.5	4.8
-6	.5	4.3	.5	.0	.0	.0	11	.0	5.3
-7/-8	.0	1.0	1.9	.0	.0	.0	6	.0	2.9
-9/-10	.0	1.4	.0	.0	.0	.0	3	.0	1.4
TOTAL	2	35	92	64	13	1	207	7	200
PCT	1.0	16.9	44.4	30.9	6.3	.5	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.1	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.5	.0	.0	.0	2.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	1.1	.0	.0	.0	2.6
3-4	.7	2.3	1.1	.7	.0	.0	4.8
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.0	4.9	1.4	.0	.0	11.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7
1-2	.0	5.5	2.6	.0	.0	.0	8.1
3-4	.0	3.9	7.4	.0	.0	.0	11.3
5-6	.0	1.1	7.2	2.1	.0	.0	10.4
7	.0	.0	5.3	1.8	.5	.0	7.6
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.4	22.5	4.6	.5	.0	38.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	4.9	.5	.0	.0	.0	5.5
3-4	.0	3.5	7.9	.0	.0	.0	11.4
5-6	.0	.9	2.1	1.4	.0	.0	4.4
7	.0	.0	4.0	3.2	.2	.0	7.4
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.7	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.5	15.5	5.3	.2	.0	30.5

PERIOD: (OVER-ALL) 1963-1977

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.7	.7	.0	.0	.0	.0	1.4
3-4	.0	1.6	1.2	.0	.0	.0	2.8
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.5	.0	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.8	4.2	.0	.0	.0	7.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.4
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.4	.0	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7	7	2.1	1.4	.0	.0	4.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.0	.0	.0	.0	.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.4	.7	.0	.0	.0	2.1	
3-4	.0	.0	.4	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.4	1.1	.0	.0	.0	2.5	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.8	1.4	.0	.0	.0	.0	4.2	
1-2	.7	14.8	4.9	.0	.0	.0	20.4	
3-4	.7	11.3	20.4	.7	.0	.0	33.1	
5-6	.0	2.1	10.6	3.5	.0	.0	16.2	
7	.0	.0	14.1	4.9	.7	.0	19.7	
8-9	.0	.0	1.4	.7	.0	.0	2.1	
10-11	.0	.0	.7	1.4	.0	.0	2.1	
12	.0	.0	.7	1.4	.0	.0	2.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	29.6	52.8	12.7	.7	.0	100.0	142

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	4.8	9.7	2.4	5.5	1.8	.6	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	5
6-7	.0	.6	8.5	5.5	7.9	3.0	4.2	1.2	1.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	55	7
8-9	.0	.0	4.2	3.0	4.2	3.0	1.8	.6	3.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	8
10-11	.0	.0	1.2	.6	2.4	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
12-13	.0	.0	.6	1.2	1.2	1.2	.6	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	.0	.6	1.8	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
TOTAL	2	10	43	24	36	17	12	8	11	1	1	0	0	0	0	0	0	0	0	165	6
PCT	1.2	6.1	26.1	14.5	21.8	10.3	7.3	4.8	6.7	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1934-1977
(OVER-ALL) 1887-1977

AREA 0016 RAROTONGA ISLAND
20.1S 159.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	SPRAY BLWG DUST SNOW	NO SIG WEA
N	25.4	6.3	6.3	.0	.0	.0	.0	38.1	6.3	.0	6.3	.0	.0		.0	49.2
NE	8.9	.0	.0	.0	.0	.0	.0	8.9	7.3	.0	.0	.0	.0		.0	83.9
E	2.5	7.8	1.4	.0	.0	.0	.0	11.7	6.4	2.5	4.9	.0	.0		.0	76.0
SE	3.6	2.7	1.8	.0	.0	.0	.0	8.2	2.7	2.3	6.4	.0	.0		.0	80.5
S	4.3	4.3	.0	.0	.0	.0	.0	8.6	11.8	4.3	.0	.0	.0		.0	79.6
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.9	.0	.0	.0		.0	87.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	13.5	5.4	.0	.0	.0	.0	.0	18.9	.0	.0	5.4	.0	.0		.0	75.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	25.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0		.0	75.0
TOT PCT	6.0	4.7	1.3	.0	.0	.0	.0	12.0	5.1	2.1	3.8	.0	.0		.0	77.8
TOT OBS:	234															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	SPRAY BLWG DUST SNOW	NO SIG WEA
00603	9.1	7.3	1.8	.0	.0	.0	.0	18.2	1.8	.0	1.8	.0	.0		.0	78.2
06609	4.1	4.1	.0	.0	.0	.0	.0	8.2	2.0	.0	.0	.0	.0		.0	89.8
12615	4.8	6.0	2.4	.0	.0	.0	.0	13.3	7.2	6.0	7.2	.0	.0		.0	68.7
18621	6.9	.0	.0	.0	.0	.0	.0	6.9	8.6	.0	3.4	.0	.0		.0	81.0
TOT PCT	6.1	4.5	1.2	.0	.0	.0	.0	11.8	5.3	2.0	3.7	.0	.0		.0	78.0
TOT OBS:	245															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	4.2	1.6	.6	.0	.0		6.4	10.5	15.0	17.6	2.3	14.8	3.2	2.6	5.2	.0
NE	1.2	6.0	4.5	.4	.0	.0		12.0	10.1	14.4	4.4	9.3	6.3	12.7	2.6	20.2	.0
E	1.2	12.9	17.0	1.2	.0	.0		32.2	11.7	25.6	36.8	33.7	.0	33.2	48.1	25.4	.0
SE	1.9	5.8	14.7	2.7	.0	.0		25.1	13.7	23.8	11.8	22.7	50.0	26.4	28.2	26.6	.0
S	.8	5.4	3.1	.3	.0	.0		9.5	10.3	2.5	17.6	10.5	.0	13.2	10.9	7.7	.0
SW	.0	1.5	1.0	.5	.0	.0		3.0	13.9	2.5	.0	5.8	.0	2.3	.0	4.8	.0
W	.0	.8	2.3	.0	.0	.0		3.1	13.0	6.9	.0	1.7	.0	.0	1.3	6.5	.0
NW	.8	1.5	3.8	1.0	.0	.0		7.1	13.0	9.4	5.9	11.6	25.0	7.3	3.8	3.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	.0	5.9	2.3	.0	1.8	2.6	.0	.0
TOT OBS	19	99	125	17	0	0	260		11.8	40	17	43	4	55	39	62	0
TOT PCT	7.3	38.1	48.1	6.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	4.1	.6	.0	.0		6.4	10.5	15.8	3.7	2.9	5.2
NE	3.5	7.4	1.2	.0	.0		12.0	10.1	11.4	9.0	8.5	20.2
E	6.3	19.3	6.5	.0	.0		32.2	11.7	28.9	30.9	39.4	25.4
SE	3.9	12.7	7.7	.8	.0		25.1	13.7	20.2	25.0	27.1	26.6
S	2.7	5.9	1.0	.0	.0		9.5	10.3	7.0	9.6	12.2	7.7
SW	.8	1.3	1.0	.0	.0		3.0	13.9	1.8	5.3	1.3	4.8
W	.8	1.3	1.1	.0	.0		3.1	13.0	4.8	1.6	.5	6.5
NW	1.5	3.5	2.1	.0	.0		7.1	13.0	8.3	12.8	5.9	3.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.8	2.1	2.1	.0
TOT OBS	59	144	55	2	0	260		11.8	57	47	94	62
TOT PCT	22.7	55.4	21.2	.8	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1934-1977
(OVER-ALL) 1887-1977

AREA 0016 RAROTONGA ISLAND
20.1S 159.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	1.8	3.5	31.6	52.6	10.5	.0	.0	12.6	100.0	57
06609	2.1	4.3	36.2	48.9	8.5	.0	.0	12.1	100.0	47
12615	2.1	7.4	44.7	43.6	2.1	.0	.0	10.7	100.0	94
18621	.0	6.5	35.5	50.0	8.1	.0	.0	12.6	100.0	62
TOT	4	15	99	125	17	0	0	11.8		260
PCT	1.5	5.8	38.1	48.1	6.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	1.4	2.1	2.8		6.2
NE	2.0	3.1	3.8	6.0		5.6
E	6.4	9.5	7.7	5.4		4.5
SE	3.1	7.5	7.2	6.1		5.2
S	1.6	2.8	1.1	1.4		4.1
SW	2.4	.6	1.3	.0		3.3
W	1.0	1.1	1.6	.0		3.7
NW	1.8	.6	4.1	2.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.6	.6		7.5
TOT OBS	34	47	52	43	176	5.0
TOT PCT	19.3	26.7	29.5	24.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.4	.0	.0	1.0	1.6	.6	.0	.0	.0	.0	3.4	
.6	.0	.7	1.7	2.0	.6	.6	.0	.0	.0	8.8	
.0	.0	.4	5.0	1.8	.6	.6	.0	.0	.0	20.6	
.0	.0	.6	2.6	5.6	2.3	.0	.0	.0	.0	12.8	
.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	6.0	
.0	.6	.0	.0	.6	.1	.0	.0	.0	.0	3.0	
.0	.0	.0	.0	.6	.4	.6	.0	.0	.0	2.7	
.7	.0	.6	.0	1.4	.0	.0	.0	.0	.0	5.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
3	1	5	19	24	8	4	0	0	0	112	176
1.7	.6	2.8	10.8	13.6	4.5	2.3	.0	.0	.0	63.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	1.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2
* OR >2000	5.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0
* OR >1000	15.1	20.4	21.0	21.0	21.0	21.0	21.0	21.0
* OR >600	22.0	30.1	31.2	31.2	31.2	31.2	31.2	31.2
* OR >300	23.1	32.3	33.9	33.9	33.9	33.9	33.9	33.9
* OR >150	23.7	32.8	34.4	34.4	34.4	34.4	34.4	34.4
* OR > 0	24.7	34.4	36.0	36.0	36.0	36.0	36.0	36.0
TOTAL	46	64	67	67	67	67	67	67

TOTAL NUMBER OF OBS: 186

PCT FREQ NH <5/8: 64.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.2	11.2	21.9	13.4	14.4	10.2	3.2	5.3	16.0	1.1	187

PERIOD: (PRIMARY) 1954-1977
(OVER-ALL) 1887-1977

AREA 0016 RAROTONGA ISLAND
20.1S 159.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.4	.0	.0	.9	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.4	.0	.0	.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.3	.1	.0	.4	.0	.0	.0	.4	.0	.0	1.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	.0	.4	.0	.0	.0	.4	.0	.0	1.3	
5<10	PCP	1.8	.6	3.3	1.3	.9	.0	.0	.6	.0	.4	9.0	
	NO PCP	.7	1.5	4.1	3.5	2.0	.0	.2	1.2	.0	.4	13.7	
	TOT %	2.6	2.1	7.4	4.8	2.9	.0	.2	1.8	.0	.9	22.6	
10+	PCP	.4	.4	.2	.2	.0	.0	.0	.4	.0	.0	1.7	
	NO PCP	3.0	10.6	22.6	18.1	7.1	3.3	3.2	4.8	.0	.9	73.5	
	TOT %	3.4	11.0	22.9	18.3	7.1	3.3	3.2	5.2	.0	.9	75.2	
	TOT OBS												234
	TOT PCT	6.7	13.2	30.2	23.5	9.9	3.3	3.4	7.9	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.0	.0	.0	.0	.0	.4	.0		.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.4	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.1	.0	.4	.0	.0	.0	.4	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.1	.0	.4	.0	.0	.0	.4	.0	.0	1.3	
5<10	0-3	.0	.0	.0	.0	.9	.0	.0	.4	.0	.9	2.1	
	4-10	1.2	.6	1.6	.0	1.3	.0	.0	.4	.0		5.1	
	11-21	.7	1.5	5.1	3.7	.7	.0	.2	.7	.0		12.8	
	22+	.6	.0	.6	1.1	.0	.0	.0	.2	.0		2.6	
	TOT %	2.6	2.1	7.4	4.8	2.9	.0	.2	1.8	.0	.9	22.6	
10+	0-3	.0	1.3	1.3	.9	.0	.0	.0	.4	.0	.9	4.7	
	4-10	2.7	6.0	11.4	5.4	4.4	1.7	.9	.9	.0		33.3	
	11-21	.7	3.3	9.8	10.1	2.4	1.1	2.4	3.1	.0		32.9	
	22+	.0	.4	.3	1.8	.3	.5	.0	.9	.0		4.3	
	TOT %	3.4	11.0	22.9	18.3	7.1	3.3	3.2	5.2	.0	.9	75.2	
	TOT OBS												234
	TOT PCT	6.7	13.2	30.2	23.5	9.9	3.3	3.4	7.9	.0	1.7	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1934-1977
(OVER-ALL) 1887-1977

AREA 0016 RAROTONGA ISLAND
21.1S 159.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.3	.0	2.3	7.0	11.6	9.3	2.3	.0	.0	.0	34.9	65.1	43
06&09	4.5	2.3	.0	6.8	11.4	4.5	4.5	.0	.0	.0	34.1	65.9	44
12&15	.0	.0	3.9	11.8	15.7	2.0	.0	.0	.0	.0	33.3	66.7	51
18&21	.0	.0	4.1	14.3	16.3	4.1	2.[illegible]	.0	.0	.0	40.8	59.2	49
TOT	4	1	5	19	26	9	4	0	0	0	67	120	187
PCT	1.6	.5	2.7	10.2	13.9	4.8	2.1	.0	.0	.0	35.8	64.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.8	.0	3.6	29.1	65.5	55
06&09	.0	.0	.0	2.0	10.2	87.8	49
12&15	.0	1.2	.0	.0	30.1	68.7	83
18&21	.0	.0	.0	.0	13.8	86.2	58
TOT	0	2	0	3	54	186	245
PCT	.0	.8	.0	1.2	22.0	75.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.3	4.7	11.6	23.3	65.1	43
06&09	4.5	6.8	15.9	18.2	65.9	44
12&15	.0	4.0	16.0	18.0	66.0	50
18&21	.0	4.1	18.4	22.4	59.2	49
TOT	3	9	29	38	117	186
PCT	1.6	4.8	15.6	20.4	64.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.5	.0	.0	.0	.0	1	.5
80/84	.0	.0	.0	.0	1.5	8.8	9.8	2.1	43	22.2
75/79	.0	.0	.0	.0	4.6	22.2	22.2	11.3	117	60.3
70/74	.0	.0	.0	.5	1.0	7.2	3.6	4.6	33	17.0
TOTAL	0	0	0	2	14	74	69	35	194	100.0
PCT	.0	.0	.0	1.0	7.2	38.1	35.6	18.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
3.6	6.8	4.8	1.2	.0	.0	2.4	3.4	.0	.0
3.7	7.1	19.5	16.4	5.3	2.2	1.3	3.9	.0	1.0
.8	.6	4.6	4.6	3.4	1.8	.4	.3	.0	.5
8.1	14.6	29.4	22.2	8.6	4.0	4.1	7.5	.0	1.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	86	82	78	73	71	71	77.9	61
06&09	82	81	81	77	72	72	72	76.9	49
12&15	82	81	80	76	72	65	65	75.9	99
18&21	88	87	82	77	73	70	70	76.8	63
TOT	88	84	82	77	72	70	65	76.7	272

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.0	14.3	38.8	34.7	10.2	79	49
06&09	.0	.0	9.1	34.1	40.9	15.9	81	44
12&15	.0	.0	1.7	32.8	37.9	27.6	83	58
18&21	.0	1.9	3.8	51.9	25.0	17.3	79	52
TOT	0	2	14	80	70	37	81	203

NOVEMBER

PERIOD: (PRIMARY) 1934-1977
(OVER-ALL) 1887-1977

AREA 0016 RAROTONGA ISLAND
20.1S 159.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.5	.5	.0	2	.0	.9
4	.0	.0	.0	.0	.5	.0	1	.0	.5
3	.0	.0	.0	.9	1.8	.0	6	.0	2.7
2	.0	.0	1.4	2.7	.9	.0	11	.5	4.6
1	.0	.5	2.3	5.0	2.3	.5	23	.5	10.0
0	.0	.9	2.3	8.2	2.7	.0	31	.0	14.2
-1	.0	.5	5.0	6.4	.9	.0	28	1.4	11.4
-2	.0	.9	9.1	8.7	1.4	.0	44	.5	19.6
-3	.0	.5	7.3	7.8	.0	.0	34	.9	14.6
-4	.0	.5	4.1	3.2	.5	.0	18	.0	8.2
-5	.0	.9	2.3	.5	.0	.0	8	.5	3.2
-6	.0	.5	3.2	.5	.0	.0	9	.0	4.1
-7/-8	.5	.5	.5	.0	.0	.0	3	.0	1.4
-9/-10	.0	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	1	13	82	97	25	1	219	9	210
PCT	.5	5.9	37.4	44.3	11.4	.5	100.0	4.1	95.9

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	2.5	.5	.0	.0	.0	3.1
3-4	.0	.0	.7	.5	.0	.0	1.3
5-6	.0	.0	1.1	.5	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	2.3	1.1	.0	.0	7.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	1.1	.0	.0	.0	.0	2.5
1-2	.0	3.1	1.6	.0	.0	.0	4.7
3-4	.0	2.3	3.2	.0	.0	.0	5.6
5-6	.0	.2	.9	.0	.0	.0	1.1
7	.0	.0	.0	.7	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	6.7	5.8	.7	.0	.0	14.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	2.5	.0	.0	.0	.0	4.0
1-2	.0	7.2	.7	.0	.0	.0	7.9
3-4	.0	2.0	5.0	.0	.0	.0	7.0
5-6	.0	.5	4.5	.0	.0	.0	5.0
7	.0	.0	3.4	.5	.0	.0	4.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	12.2	13.7	.5	.0	.0	27.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.8	.7	.0	.0	.0	4.5
3-4	.0	.0	7.0	1.4	.0	.0	8.5
5-6	.0	.7	7.7	.7	.0	.0	9.2
7	.0	.0	1.6	.9	.0	.0	2.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	17.1	3.8	.0	.0	25.7

PERIOD: (OVER-ALL) 1963-1977 NOVEMBER AREA 0016 RAROTONGA ISLAND

TABLE 1b (CONT) 20.1S 159.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	2.2	.7	.0	.0	.0	2.9
3-4	.0	2.2	2.0	.0	.0	.0	4.1
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	4.0	.0	.0	.0	9.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	.9	.0	.0	.0	2.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.8	.0	.0	.0	1.8
5-6	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.7	.0	.0	.0	.7
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.4	.0	.0	.0	3.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.0	1.6	.2	.0	.0	1.8
5-6	.0	.0	1.6	.9	.0	.0	2.5
7	.0	.0	2.2	.0	.0	.0	2.2
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	5.4	1.8	.0	.0	8.6

HGT	TOTAL PCT
<1	.0
1-2	1.4
3-4	1.8
5-6	2.5
7	2.2
8-9	.7
10-11	.0
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	7.0	.0	.0	.0	.0	12.0	
1-2	.0	20.4	4.2	.0	.0	.0	24.6	
3-4	.0	7.0	21.1	2.1	.0	.0	30.3	
5-6	.0	1.4	17.6	2.1	.0	.0	21.1	
7	.0	.0	7.7	2.1	.0	.0	9.9	
8-9	.0	.0	.0	.7	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.7	.0	.0	.0	.7	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	35.9	51.4	7.7	.0	.0	100.0	142

PERIOD: (OVER-ALL) 1954-1977 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	5.4	8.4	9.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	4
6-7	.0	2.4	6.0	6.0	9.0	3.0	1.2	.6	3.6	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	55	7
8-9	.0	.6	1.8	1.8	3.0	2.4	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
10-11	.0	1.2	1.2	3.0	2.4	.6	2.4	.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
12-13	.6	.0	.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	.0	1.8	1.8	2.4	3.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
TOTAL	2	19	33	39	41	11	8	4	8	1	0	1	0	0	0	0	0	0	0	167	6
PCT	1.2	11.4	19.8	23.4	24.6	6.6	4.8	2.4	4.8	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

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20.3S 158.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.3	6.3	.0	.0	.0	.0	.0	12.7	11.1	.0	.0	.0	.0	.0	.0	76.2
NE	3.4	7.7	.0	.0	.0	.0	.0	11.1	13.7	.0	.0	.0	.0	.0	.0	75.2
E	3.8	3.4	.0	.0	.0	.0	.0	7.2	2.4	5.2	.0	.0	.0	.0	.0	87.9
SE	3.8	.4	1.7	.0	.0	.0	.0	5.8	.4	.4	1.7	.0	.0	.0	.0	91.7
S	4.6	.0	.0	.0	.0	.0	.0	4.6	.0	.0	.0	.0	.0	.0	.0	95.4
SW	25.8	.0	.0	.0	.0	.0	12.9	38.7	12.9	12.9	.0	.0	.0	.0	.0	48.4
W	22.6	.0	.0	.0	.0	.0	.0	22.6	12.9	.0	.0	.0	.0	.0	.0	64.5
NW	36.0	.0	.0	.0	.0	.0	.0	36.0	4.0	.0	.0	.0	.0	.0	.0	60.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	6.2	2.7	.4	.0	.0	.0	.4	9.8	4.4	2.2	.4	.0	.0	.0	.0	84.4
TOT OBS:	225															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.0	3.3	.0	.0	.0	.0	.0	8.3	5.0	.0	.0	.0	.0	.0	.0	86.7
06&09	7.7	3.8	.0	.0	.0	.0	.0	11.5	3.8	3.8	.0	.0	.0	.0	.0	82.7
12&15	8.5	.0	.0	.0	.0	.0	.0	8.5	3.4	3.4	1.7	.0	.0	.0	.0	84.7
18&21	4.8	3.2	1.6	.0	.0	.0	1.6	11.3	6.9	1.0	1.6	.0	.0	.0	.0	80.6
TOT PCT	6.4	2.0	.4	.0	.0	.0	.4	9.9	4.7	2.1	.9	.0	.0	.0	.0	83.7
TOT OBS:	233															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	3.4	3.2	.0	.0	.4		7.4	13.7	11.2	14.3	5.9	.0	2.2	6.9	7.7	.0
NE	.4	8.7	3.3	.4	.0	.0		12.9	9.7	11.6	5.4	9.8	.0	12.2	8.3	19.6	.0
E	.8	12.7	18.6	.8	.0	.0		32.8	12.0	28.6	51.8	35.8	.0	29.4	54.2	26.5	.0
SE	1.6	7.7	16.0	1.6	.1	.0		27.0	13.2	23.7	28.6	31.9	.0	19.4	30.6	30.0	.0
S	.0	4.5	4.6	.0	.3	.0		9.4	11.4	10.7	.0	10.8	.0	16.7	.0	6.9	.0
SW	.0	1.3	1.5	.4	.0	.0		3.2	14.3	2.2	.0	2.0	.0	7.8	.0	3.5	.0
W	.0	.4	2.0	.3	.0	.4		3.1	21.6	6.7	.0	.0	.0	3.3	.0	3.8	.0
NW	.0	.6	1.4	.5	.0	.0		2.5	15.3	5.4	.0	.0	.0	4.4	.0	1.9	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	.0	.0	3.9	.0	4.4	.0	.0	.0
TOT OBS	12	98	126	10	1	2	249		12.3	56	14	51	0	45	18	65	0
TOT PCT	4.8	39.4	50.6	4.0	.4	.8		100.0		100.0	100.0	100.0	.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	4.3	1.2	.0	.4		7.4	13.7	11.8	5.9	3.6	7.7
NE	3.6	8.1	1.1	.0	.0		12.9	9.7	10.4	9.8	11.1	19.6
E	4.0	22.0	6.8	.0	.0		32.8	12.0	33.2	35.8	36.5	26.5
SE	2.9	17.5	5.1	.5	.0		27.0	13.2	24.6	31.9	22.6	30.0
S	.6	8.5	.0	.3	.0		9.4	11.4	8.6	10.8	11.9	6.9
SW	.9	1.0	.9	.4	.0		3.2	14.3	1.8	2.0	5.6	3.5
W	.0	2.1	.6	.0	.4		3.1	21.6	5.4	.0	2.4	3.8
NW	.5	1.1	.9	.0	.0		2.5	15.3	4.3	.0	3.2	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	.0	3.9	3.2	.0
TOT OBS	39	161	44	3	2	249		12.3	70	51	63	65
TOT PCT	15.7	64.7	17.7	1.2	.8		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	1.4	40.0	54.3	2.9	.0	1.4	12.9	100.0	70
06&09	3.9	3.9	35.3	54.9	2.0	.0	.0	11.6	100.0	51
12&15	3.2	6.3	46.0	41.3	1.6	1.6	.0	10.4	100.0	63
18&21	.0	1.5	35.4	52.3	9.2	.0	1.5	14.3	100.0	65
TOT	4	8	98	126	10	1	2	12.3		249
PCT	1.6	3.2	39.4	50.6	4.0	.4	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.5	2.0	3.1		5.9
NE	2.0	3.4	5.1	4.1		5.4
E	4.8	10.1	11.3	5.3		4.8
SE	3.0	5.7	10.1	5.9		5.4
S	.5	3.1	5.2	1.6		5.3
SW	.5	.5	1.2	1.9		6.2
W	.0	.5	1.9	.8		6.3
NW	.0	.5	.8	1.8		6.9
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.5	.5		7.5
TOT OBS	22	45	70	46	183	5.4
TOT PCT	12.0	24.6	38.3	25.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	1.6	1.1	.0	.0	.0	.0	.0	3.7	
NE	.0	.0	.0	.7	3.8	1.2	.0	.0	.0	.0	8.9	
E	.0	.0	.8	2.3	3.7	1.4	1.5	.0	.0	.0	21.9	
SE	.0	.0	1.0	4.2	4.9	1.8	.1	.0	.0	.0	12.7	
S	.0	.0	.4	1.5	2.3	.0	.5	.0	.0	.5	5.2	
SW	.0	.0	.5	1.1	.5	.3	.0	.0	.0	.0	1.8	
W	.0	.0	.0	.5	.4	.3	.0	.0	.0	.0	2.0	
NW	.0	.0	.7	1.1	.7	.0	.0	.0	.0	.0	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	8	24	33	9	4	0	0	1	104	#183
TOT PCT	.0	.0	4.4	13.1	18.0	4.9	2.2	.0	.0	.5	56.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ■ OR >10	■ OR >5	■ OR >2	■ OR >1	■ OR >1/2	■ OR >1/4	■ OR >50YD	■ OR >0
■ OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
■ OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
■ OR >3500	2.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7
■ OR >2000	6.9	7.4	7.4	7.4	7.4	7.4	7.4	7.4
■ OR >1000	20.7	25.0	25.5	25.5	25.5	25.5	25.5	25.5
■ OR >600	29.8	37.2	38.3	38.3	38.3	38.3	38.3	38.3
■ OR >300	32.4	41.0	42.6	42.6	42.6	42.6	42.6	42.6
■ OR >150	32.4	41.0	42.6	42.6	42.6	42.6	42.6	42.6
■ OR > 0	32.4	41.0	42.6	42.6	42.6	42.6	42.6	42.6
TOTAL	61	77	80	80	80	80	80	80

TOTAL NUMBER OF OBS: 188

PCT FREQ NH <5/8: 57.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.1	6.7	19.5	19.5	8.2	8.2	3.1	10.8	22.1	.0	195

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	
	PCP	.4	.0	.0	.0	.0	.0	.0	.4	.0	.0	.9	
2<5	NO PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.9	.0	.0	.0	.0	.0	.0	.4	.0	.0	1.3	
	PCP	.0	.1	2.0	1.0	.0	1.3	.0	.4	.0	.0	4.9	
5<10	NO PCP	.0	2.0	4.3	3.0	.0	.4	.4	.0	.0	.0	10.2	
	TOT %	.0	2.1	6.3	4.0	.0	1.8	.4	.4	.0	.0	15.1	
	PCP	.4	1.3	.3	.6	.4	.0	.0	.0	.0	.0	3.1	
10+	NO PCP	5.7	9.6	25.6	22.1	9.2	1.7	2.2	1.8	.0	1.8	79.6	
	TOT %	6.1	10.9	25.9	22.7	9.7	1.7	2.2	1.8	.0	1.8	82.7	
	TOT OBS												225
	TOT PCT	7.0	13.0	32.2	28.7	9.7	3.4	3.4	2.8	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.4	.0	.0	.0	.0	.0	.4	.0	.0		.9	
	TOT %	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.3	.1	.0		.4	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.4	.0	.0	.0	.0	.0	.0	.4	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.9	.0	.0	.0	.0	.0	.0	.4	.0	.0	1.3	
	0-3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
5<10	4-10	.0	.8	2.2	.6	.0	.4	.4	.0	.0		4.4	
	11-21	.0	.4	4.1	3.0	.0	.9	.0	.4	.0		8.8	
	22+	.0	.4	.0	.4	.0	.4	.0	.0	.0		1.3	
	TOT %	.0	2.1	6.3	4.0	.0	1.8	.4	.4	.0	.0	15.0	
	0-3	.4	.0	.4	1.3	.0	.0	.0	.0	.0	1.8	4.0	
10+	4-10	3.3	7.8	10.0	7.5	4.6	.9	.0	.7	.0		34.8	
	11-21	2.3	3.0	14.3	13.1	5.1	.8	2.2	.7	.0		41.4	
	22+	.0	.0	.9	.6	.3	.0	.0	.4	.0		2.2	
	TOT %	6.1	10.8	25.7	22.5	10.0	1.7	2.2	1.8	.0	1.8	82.4	
	TOT OBS												227
	TOT PCT	7.4	12.9	31.9	26.4	10.0	3.4	3.4	2.8	.0	1.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	4.2	8.3	20.8	4.2	.0	.0	.0	2.1	39.6	60.4	48
06&09	.0	.0	2.0	16.3	24.5	4.1	.0	.0	.0	.0	46.9	53.1	49
12&15	.0	.0	5.3	15.8	7.9	10.5	7.9	.0	.0	.0	47.4	52.6	38
18&21	.0	.0	5.6	11.1	16.7	1.9	1.9	.0	.0	.0	37.0	63.0	54
TOT	0	0	8	24	34	9	4	0	0	1	80	109	189
PCT	.0	.0	4.2	12.7	18.0	4.8	2.1	.0	.0	.5	42.3	57.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.6	.0	.0	1.6	13.1	83.6	61
06&09	.0	.0	.0	1.9	15.1	83.0	53
12&15	.0	.0	.0	.0	22.0	78.0	59
18&21	1.6	.0	1.6	1.6	11.1	84.1	63
TOT	2	0	1	3	36	196	236
PCT	.8	.0	.4	1.3	15.3	82.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50VSBY	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	4.3	12.8	27.7	59.6	47
06&09	.0	2.0	18.4	28.6	53.1	49
12&15	.0	5.3	21.1	26.3	52.6	38
18&21	.0	5.6	16.5	18.5	63.0	54
TOT	0	8	33	47	108	188
PCT	.0	4.3	17.6	25.0	57.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.5	.0	.0	.0	.0	1	.5
85/89	.0	.0	.0	.0	.0	2.4	.9	.5	8	3.8
80/84	.0	.0	.0	.0	2.4	11.8	9.4	1.4	53	25.0
75/79	.0	.0	.0	.5	3.3	14.2	24.1	18.4	128	60.4
70/74	.0	.0	.0	.0	1.4	.5	4.2	4.2	22	10.4
TOTAL	0	0	0	2	15	61	82	52	212	100.0
PCT	.0	.0	.0	.9	7.1	28.8	38.7	24.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.4	.1	.0	.0	.0	.0	.0	.0
.0	1.1	.8	.5	.8	.1	.4	.1	.0	.0
3.2	5.8	9.9	2.9	.7	.8	.6	.6	.0	.5
3.1	5.7	18.3	18.6	7.9	1.9	2.2	1.8	.0	.9
.5	1.9	1.8	4.1	1.7	.5	.0	.0	.0	.0
6.7	14.4	31.1	26.3	11.1	3.3	3.2	2.5	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	89	86	80	74	70	70	80.1	70
06&09	83	82	82	78	72	71	71	77.6	53
12&15	82	81	80	77	73	72	72	77.0	67
18&21	83	82	81	78	74	73	73	77.7	67
TOT	90	87	84	78	74	71	70	78.2	257

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.6	14.5	41.9	19.4	22.6	80	62
06&09	.0	.0	4.0	18.0	50.0	28.0	85	50
12&15	.0	2.1	4.3	23.4	38.3	31.9	84	47
18&21	.0	.0	4.9	26.2	47.5	21.3	83	61
TOT	0	2	16	62	84	56	83	220

DECEMBER

PERIOD: (PRIMARY) 1953-1977
(OVER-ALL) 1916-1977

AREA 0016 RAROTONGA ISLAND
20.2S 158.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.5	.5	2	.0	1.0
11/13	.0	.0	.0	.0	.0	.5	1	.0	.5
6	.0	.0	.5	.5	.5	.0	3	.0	1.5
4	.0	.0	.5	.0	1.5	.0	4	.0	2.0
3	.0	.0	.5	2.0	.5	.0	6	.0	2.9
2	.0	.0	.5	3.9	.0	.0	9	.0	4.4
1	.0	.0	3.9	1.5	.0	.0	11	.0	5.4
0	.0	1.0	10.2	4.4	.0	.0	32	.0	15.6
-1	.0	3.4	11.7	1.0	.0	.0	33	.5	15.6
-2	.0	4.9	5.9	1.0	.0	.0	24	.5	11.2
-3	.0	5.9	6.8	1.0	.0	.0	28	.0	13.7
-4	.0	2.9	6.8	.5	.0	.0	21	.0	10.2
-5	.5	1.5	4.9	.0	.0	.0	14	.0	6.8
-6	.5	2.4	2.0	.0	.0	.0	10	.0	4.9
-7/-8	.5	1.5	.0	.0	.0	.0	4	.0	2.0
-9/-10	.5	.0	.5	.0	.0	.0	2	.0	1.0
-11/-13	.0	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	4	49	112	32	6	2	205	2	203
PCT	2.0	23.9	54.6	15.6	2.9	1.0	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.1	1.5	.0	.0	.0	4.6
3-4	.0	.8	2.1	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	3.6	.0	.0	.0	7.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.7	.0	.0	.0	.0	2.5
1-2	.0	3.2	1.1	.0	.0	.0	4.4
3-4	.0	1.9	.4	.0	.0	.0	2.3
5-6	.0	.8	1.5	.0	.0	.0	2.3
7	.0	.0	.0	.8	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.6	3.1	.8	.0	.0	12.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	8.0	3.2	.0	.0	.0	11.3
3-4	.0	3.4	5.2	.8	.0	.0	9.4
5-6	.0	.0	5.0	.0	.0	.0	5.0
7	.0	.0	2.3	.8	.0	.0	3.1
8-9	.0	.0	1.9	.0	.0	.0	1.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.8	17.6	1.5	.0	.0	31.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.8	.0	.0	.0	.0	1.5
1-2	.0	1.9	1.7	.0	.0	.0	3.6
3-4	.0	3.2	6.1	.8	.0	.0	10.1
5-6	.0	.0	4.0	.0	.0	.0	4.0
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	.4	.8	.2	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.9	13.7	1.5	.2	.0	22.1

PERIOD: (OVER-ALL) 1963-1977

DECEMBER

TABLE 18 (CONT)

AREA 0016 RAROTONGA ISLAND
20.3S 158.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.8	.0	.0	.0	2.1
3-4	.0	3.6	3.6	.0	.0	.0	7.3
5-6	.0	.8	2.5	.0	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.6	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.7	6.9	.0	.6	.0	13.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.8	.0	.0	.8
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.7	.8	.0	.0	2.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.8	.0	.0	.0	.0	.8
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.8	.8
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	1.1	.6	.0	.8	3.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.8	.0	.0	.0	.0	.8	
3-4	.0	.0	1.0	.0	.0	.0	1.0	
5-6	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	1.5	.8	.0	.0	2.3	
8-9	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.8	2.7	1.0	.0	.0	4.4	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	3.7	.0	.0	.0	.0	8.1	
1-2	1.5	19.3	8.1	.0	.0	.0	28.9	
3-4	.0	13.3	19.3	1.5	.0	.0	34.1	
5-6	.0	1.5	14.1	.0	.0	.0	15.6	
7	.0	.0	5.2	2.2	.0	.0	7.4	
8-9	.0	.0	2.2	1.5	.7	.0	4.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.7	.0	.0	.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.7	.7	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	37.8	48.9	5.9	.7	.7	100.0	135

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	4.8	9.7	6.7	3.0	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	4
6-7	.0	1.8	8.5	8.5	9.7	3.6	1.8	.0	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	6
8-9	.0	.0	3.6	4.2	4.2	1.2	3.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	29	7
10-11	.0	.0	1.2	1.2	2.4	1.8	.0	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
12-13	.0	.0	1.2	.0	1.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
>13	.0	.0	.0	1.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
INDET	.6	.0	.6	2.4	1.2	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	10	7
TOTAL	1	11	41	41	37	15	11	2	3	1	0	1	1	0	0	0	0	0	0	165	6
PCT	.6	6.7	24.8	24.8	22.4	9.1	6.7	1.2	1.8	.6	.0	.6	.6	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1932-1976
(OVER-ALL) 1882-1976

AREA 0016 RAROTONGA ISLAND
20.1S 158.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	11.6	8.3	1.2	.0	.0	.0	.0	21.1	4.6	2.2	1.1	.0	.0		.0	71.0
NE	3.3	4.5	1.4	.0	.0	.0	.0	9.2	3.9	2.0	.7	.0	.0		.0	83.9
E	3.2	3.3	1.1	.0	.0	.0	.0	7.8	2.7	1.9	1.5	.0	.0		.0	86.8
SE	3.4	2.9	1.1	.0	.0	.0	.0	7.4	4.3	.4	1.8	.0	.2		.0	85.8
S	3.0	5.7	.6	.0	.0	.0	.0	9.2	5.6	1.1	1.4	.0	.0		.0	83.1
SW	6.5	3.4	1.3	.0	.0	.0	1.1	12.3	4.9	2.2	4.3	.0	.0		.0	77.4
W	3.7	8.0	.5	.0	.0	.0	.0	12.2	8.2	3.8	1.8	.0	.0		.0	73.9
NW	10.9	9.6	3.6	.0	.0	.0	.0	24.1	3.6	.6	.5	.0	.0		.0	71.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.8	4.9	.0	.0	.0	.0	.0	7.6	.0	1.7	.0	.0	.0		.0	90.7
TOT PCT	4.5	4.6	1.2	.0	.0	.0	*	10.3	3.9	1.4	1.4	.0	*		.0	83.3
TOT OBS:	2568															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.4	4.6	.6	.0	.0	.0	.0	9.6	3.5	.0	1.1	.0	.1		.0	85.7
06&09	5.3	3.7	1.0	.0	.0	.0	.0	10.0	3.9	1.3	.3	.0	.0		.0	84.6
12&15	4.5	5.0	1.3	.0	.0	.0	.0	10.8	4.2	3.4	3.1	.0	.0		.0	79.5
18&21	3.9	4.7	1.6	.0	.0	.0	.1	10.3	3.7	.2	1.0	.0	.0		.0	84.8
TOT PCT	4.5	4.5	1.2	.0	.0	.0	*	10.2	3.9	1.4	1.5	.0	*		.0	83.3
TOT OBS:	2746															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	3.4	2.6	.5	.1	*		7.2	11.5	8.8	9.9	6.0	12.5	5.3	5.1	8.2	3.1
NE	.5	6.9	4.1	.3	.0	.0		11.9	10.4	12.3	13.1	10.5	7.8	11.8	8.1	13.9	13.5
E	.8	13.3	13.7	2.2	.1	*		30.1	12.4	26.0	33.1	33.2	38.5	30.6	29.7	29.4	19.8
SE	.7	8.7	14.8	3.2	.2	.0		27.7	14.0	28.0	23.7	26.5	16.7	27.3	32.1	27.8	5.2
S	.7	3.6	4.6	.4	*	.0		9.3	11.6	9.4	4.5	10.4	6.3	10.5	12.8	7.1	.0
SW	.2	1.5	1.4	.3	.0	.0		3.4	11.9	3.7	5.5	2.9	.0	3.3	2.6	4.2	.0
W	.3	1.7	1.4	.3	.0	*		3.8	11.9	4.7	4.4	3.2	4.2	2.8	4.9	3.9	.0
NW	.3	1.8	1.8	.6	*	.0		4.5	12.5	5.6	5.4	4.1	5.7	5.0	3.5	3.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0	1.4	.5	3.2	.0	3.5	1.2	1.7	.0
TOT OBS							3037		12.2	558	165	674	24	619	281	708	8
TOT PCT	6.4	40.8	44.5	7.7	.5	.1		100.0		100.0	100.0	100.0	91.7	100.0	100.0	100.0	41.7

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	4.1	1.0	.3	.1		7.2	11.5	9.3	6.3	5.2	8.3
NE	2.5	8.2	1.1	.2	.0		11.9	10.4	12.6	10.5	10.7	14.1
E	4.7	18.7	6.2	.5	*		30.1	12.4	27.6	33.2	30.5	29.5
SE	3.5	14.7	8.5	.9	.1		27.7	14.0	27.2	26.6	28.7	27.8
S	2.0	5.5	1.7	.2	.0		9.3	11.6	8.7	10.3	11.2	7.1
SW	.9	1.7	.5	.2	.0		3.4	11.9	3.7	2.8	3.1	4.1
W	1.0	2.1	.6	.1	*		3.8	11.9	4.3	3.2	3.5	3.9
NW	1.1	2.1	1.0	.2	.0		4.5	12.5	5.4	4.2	4.5	3.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	1.3	3.0	2.8	1.7
TOT OBS						3037		12.2	723	698	900	716
TOT PCT	19.6	57.1	20.6	2.4	.2		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.3	4.0	35.1	50.3	8.5	.7	.2	13.0	100.0	723
06&09	3.0	4.2	41.7	42.2	8.3	.5	.0	12.1	100.0	698
12&15	2.8	5.8	45.2	40.6	5.2	.3	.0	11.1	100.0	900
18&21	1.7	2.5	39.7	46.1	9.4	.4	.1	12.9	100.0	716
TOT								12.2		3037
PCT	2.2	4.2	40.8	44.5	7.7	.5	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	1.0	2.8	2.5		5.6
NE	2.5	3.3	4.0	2.8		4.8
E	5.8	9.0	9.4	5.7		4.7
SE	4.0	6.5	10.6	5.7		5.1
S	1.4	2.5	3.0	1.7		5.0
SW	1.0	.9	1.1	.7		4.7
W	1.0	.9	1.1	.7		4.7
NW	.5	.7	1.5	1.7		5.8
VAR	.0	.0	.0	.0		.0
CALM	.9	.5	.7	.2		4.1
TOT OBS					2159	4.9
TOT PCT	18.7	25.4	34.2	21.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.2	1.1	1.2	.6	.1	.0	.0	.1	4.1	
NE	.1	.0	.3	1.1	1.9	.6	.1	.0	.0	.0	8.6	
E	*	*	.5	3.4	4.0	1.2	.4	*	.0	*	20.3	
SE	.1	*	.5	2.9	5.6	1.6	.5	.1	*	.0	16.2	
S	*	.0	.2	1.0	1.6	.4	.3	*	*	*	5.0	
SW	.0	.1	.1	.3	.6	.2	.1	.0	.0	.0	2.4	
W	.0	.0	.0	.3	.8	.1	*	.0	.0	*	2.3	
NW	.1	*	.2	.4	.8	.4	*	.0	.0	*	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.0	.2	.1	*	.0	.0	.0	1.9	
TOT OBS												2159
TOT PCT	.4	.2	1.9	10.7	16.7	5.2	1.5	.1	*	.2	63.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.3	.3	.4	.4	.4	.4	.4	.4
* OR >3500	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9
* OR >2000	6.0	6.9	7.1	7.1	7.1	7.1	7.1	7.1
* OR >1000	19.2	23.1	23.8	23.8	23.8	23.8	23.8	23.8
* OR >600	26.0	33.0	34.2	34.3	34.3	34.4	34.4	34.4
* OR >300	26.9	34.5	36.0	36.1	36.1	36.2	36.2	36.2
* OR >150	27.0	34.7	36.2	36.3	36.3	36.4	36.4	36.4
* OR > 0	27.2	34.9	36.5	36.6	36.6	36.8	36.8	36.8

TOTAL NUMBER OF OBS: 2213 PCT FREQ NH <5/8: 63.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.3	12.3	18.4	17.4	12.5	8.3	7.3	6.6	14.7 .2	2314

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.1	.0	.0	.0	*	*	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.1	.0	.0	.0	*	*	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	.0	.1	.0	.0	.0	*	.0	.0	.1	
	TOT %	*	.0	.0	.1	.0	.0	.0	*	.0	.0	.2	
1<2	PCP	*	.0	.0	.0	*	*	.1	*	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	.0	*	*	.1	*	.0	.0	.2	
2<5	PCP	.3	.2	.3	.2	.2	.0	*	.2	.0	*	1.4	
	NO PCP	*	.0	.2	.3	.1	.0	.1	.1	.0	.0	.8	
	TOT %	.3	.2	.5	.5	.2	.0	.1	.3	.0	*	2.2	
5<10	PCP	.8	.4	1.2	1.3	.4	.2	.2	.3	.0	*	5.1	
	NO PCP	.8	1.2	3.3	3.9	1.2	.3	.4	.4	.0	*	11.5	
	TOT %	1.5	1.6	4.6	5.2	1.6	.6	.5	.9	.0	.1	16.6	
10+	PCP	.3	.6	.7	.6	.2	.1	.2	.4	.0	.1	3.3	
	NO PCP	4.8	9.8	24.0	21.4	6.9	2.7	2.8	2.9	.0	2.1	77.3	
	TOT %	5.2	10.4	24.7	22.0	7.1	2.9	2.9	3.3	.0	2.2	80.7	
	TOT OBS												2685
	TOT PCT	7.1	12.2	29.9	27.9	9.0	3.5	3.7	4.6	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	*	.0	.1	.0	.0	.0	.0	*	.0		.1	
	22+	*	.0	*	.0	.0	.0	*	.0	.0		.1	
	TOT %	.1	.0	.1	.0	.0	.0	*	*	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	*	.0	.0	.0	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	*	.0	.0	.1	.0	.0	.0	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	*	.0	*	.0	.0		.1	
	22+	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	TOT %	*	.0	.0	.0	*	*	.1	*	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
	4-10	*	*	*	.1	.1	.0	*	.1	.0		.3	
	11-21	.1	.1	.3	.2	.1	.0	*	.1	.0		1.0	
	22+	.2	*	.1	.3	*	.0	.0	.1	.0		.7	
	TOT %	.3	.2	.5	.5	.2	.0	.1	.3	.0	*	2.2	
5<10	0-3	.1	.1	.0	*	.2	*	.1	.1	.0	.1	.6	
	4-10	.5	.8	1.8	1.1	.5	.2	.2	.3	.0		5.5	
	11-21	.6	.7	2.1	2.9	.9	.2	.2	.4	.0		8.1	
	22+	.3	.1	.6	1.1	.1	.1	*	.1	.0		2.4	
	TOT %	1.5	1.6	4.5	5.2	1.7	.6	.5	.9	.0	.1	16.6	
10+	0-3	.4	.5	.8	.6	.5	.2	.2	.2	.0	2.2	5.5	
	4-10	2.7	6.2	11.0	7.6	2.8	1.2	1.4	1.3	.0		34.2	
	11-21	1.9	3.5	11.4	11.9	3.5	1.3	1.1	1.3	.0		36.0	
	22+	.1	.3	1.5	1.9	.3	.2	.2	.4	.0		4.9	
	TOT %	5.2	10.4	24.7	22.0	7.1	2.9	3.0	3.3	.0	2.2	80.6	
	TOT OBS												2672
	TOT PCT	7.1	12.2	29.8	27.8	9.0	3.5	3.7	4.6	.0	2.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.8	.5	1.1	8.9	16.9	6.6	1.2	.2	.2	.2	36.6	63.4	533
06&09	.4	.3	1.5	10.2	17.4	4.3	1.8	.2	.0	.3	36.5	63.5	591
12&15	.2	.0	1.5	10.7	15.0	5.0	1.3	.2	.0	.4	34.2	65.8	572
18&21	.2	.0	3.1	11.8	15.6	4.3	1.8	.0	.0	.0	36.8	63.2	575
TOT PCT	.4	.2	1.8	10.4	16.3	5.0	1.5	.1	*	.2	36.0	64.0	2271 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.6	.3	.0	2.3	18.5	78.4	644
06&09	.1	.0	.6	2.0	13.1	84.2	654
12&15	.0	.3	.0	2.1	22.1	75.4	806
18&21	.1	.0	.1	2.5	12.0	85.3	647
TOT PCT	.2	.2	.2	2.2	16.8	80.4	2751 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.8	2.8	12.7	24.8	62.5	522
06&09	.4	2.3	13.7	24.6	61.8	567
12&15	.2	1.7	13.8	21.7	64.5	558
18&21	.2	3.3	16.1	21.2	62.7	566
TOT PCT	.4	2.5	14.1	23.1	62.9	2213 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.1	.1	.0	.0		.2
85/89	.0	.0	.0	.1	.5	1.0	.4	*		2.0
80/84	.0	.0	*	.1	2.3	11.1	13.0	2.1		28.7
75/79	*	.0	*	.3	3.5	14.4	19.3	10.1		47.7
70/74	.0	.0	.0	.9	3.8	4.8	5.4	5.2		20.0
65/69	.0	.0	*	*	.1	.3	.5	.2		1.3
TOTAL PCT	*	.0	.1	1.4	10.3	31.7	38.7	17.7	2426	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.2	*	.0	.0	.0	.0	.0	.0
.2	.4	.7	.3	.2	.1	*	.1	.0	*
3.2	4.9	9.7	5.2	1.0	.6	1.2	2.0	.0	.9
3.6	6.0	14.3	13.5	4.0	1.3	2.0	2.1	.0	1.1
.4	1.0	4.7	7.7	4.1	1.2	.5	.4	.0	.2
.0	.0	.1	.8	.1	.2	*	.0	.0	.0
7.3	12.3	29.7	27.5	9.4	3.3	3.7	4.5	.0	2.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	94	86	84	79	73	70	55	78.6	738
06&09	86	82	81	78	73	69	58	77.1	711
12&15	84	81	80	76	72	70	65	76.2	922
18&21	89	82	81	77	73	70	58	76.8	723
TOT	94	84	82	77	73	70	55	77.1	3089

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.2	3.2	17.4	36.3	29.8	13.0	78	606
06&09	.0	1.3	8.2	29.0	43.8	17.8	81	628
12&15	.0	1.2	7.5	29.6	39.2	22.5	82	657
18&21	.0	.8	7.7	32.6	41.4	17.3	81	603
TOT	1	40	256	787	961	449	81	2494

ANNUAL

PERIOD: (PRIMARY) 1932-1978
(OVER-ALL) 1892-1978

AREA 0016 RAROTONGA ISLAND
20.1S 158.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.2	.2	.1	.0	11	.0	.5
11/13	.0	.0	.0	.0	.1	.0	.1	*	7	.0	.3
9/10	.0	.0	.0	.0	.1	.0	*	.0	3	.0	.1
7/8	.0	.0	.0	*	.1	*	.1	.0	7	.0	.3
6	.0	.0	.0	.1	.1	.1	*	.0	9	.0	.4
5	.0	.0	.1	.1	.5	.2	.0	.0	22	.0	.9
4	.0	.0	.0	.3	.1	.2	.0	.0	15	.0	.6
3	.0	*	.2	.9	.9	.2	.0	.0	55	*	2.2
2	.0	.2	.3	1.1	1.1	.3	.0	.0	75	*	3.0
1	.0	.2	1.0	2.7	2.4	.2	.0	.0	161	.2	6.3
0	.0	.3	1.8	6.1	4.0	.2	.0	.0	309	*	12.4
-1	*	.4	3.5	7.3	3.6	.1	.0	.0	383	.3	15.1
-2	*	.8	5.4	7.6	2.9	.0	.0	.0	415	.3	16.4
-3	.0	1.0	4.8	5.8	1.2	.0	.0	.0	315	.2	12.5
-4	.1	1.0	4.6	3.9	.9	.0	.0	.0	262	.1	10.4
-5	.1	1.4	2.9	2.8	.3	.0	.0	.0	186	.1	7.3
-6	.2	1.6	2.1	.7	*	.0	.0	.0	116	.1	4.5
-7/-8	.2	1.5	1.6	.5	*	.0	.0	.0	95	.0	3.8
-9/-10	.1	.7	.4	.1	.0	.0	.0	.0	34	.0	1.3
-11/-13	.0	.1	.2	.0	.0	.0	.0	.0	6	.0	.2
-14/-16	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL									2487		
PCT	.7	9.3	28.9	40.8	18.3	1.7	.3	*	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7
1-2	.1	2.0	.8	.0	.0	.0	2.8
3-4	.1	.4	1.1	.1	.0	.0	1.6
5-6	.0	.1	.7	.2	.0	.0	.9
7	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.1	*	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.8	3.1	.5	.1	.0	6.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.2	.0	.0	.0	1.3
1-2	.2	4.4	.8	.0	.0	.0	5.4
3-4	.1	2.4	2.0	.1	.0	.0	4.6
5-6	.0	.3	.8	.0	.0	.0	1.1
7	.0	.0	.5	.1	.0	.0	.6
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.0	4.5	.4	.0	.0	13.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.0	.0	.0	.0	1.6
1-2	.4	7.3	2.4	.0	.0	.0	10.1
3-4	*	3.3	4.9	.2	.0	.0	8.5
5-6	.0	.9	4.9	.9	.0	.0	6.7
7	.0	.0	2.2	1.0	*	.0	3.3
8-9	.0	.0	.5	.2	.1	.0	.8
10-11	.0	.0	*	.1	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.1	.0	.1	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	12.8	15.0	2.7	.2	.1	31.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.8
1-2	.1	4.6	1.5	.0	.0	.0	6.2
3-4	.0	2.0	5.1	.6	.0	.0	7.7
5-6	.0	.9	5.0	.4	.0	.0	6.3
7	.0	.0	2.3	.8	*	.0	3.1
8-9	.0	.1	.6	.8	*	.0	1.5
10-11	.0	.0	.1	.6	.1	.0	.7
12	.0	.0	*	.2	.0	.0	.2
13-16	.0	.0	.0	.1	.1	.0	.1
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	8.3	14.6	3.5	.3	.0	26.8

PERIOD: (OVER-ALL) 1963-1978

ANNUAL

TABLE 18 (CONT)

AREA 0016 RAROTONGA ISLAND
20.1S 158.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.1	.0	.0	.0	.4
1-2	.3	1.1	.7	.0	.0	.0	2.1
3-4	.0	1.4	1.8	.1	.0	.0	3.2
5-6	.0	.2	1.2	.1	.0	.0	1.5
7	.0	.0	.4	*	.0	.0	.5
8-9	.0	.0	.2	.1	*	.0	.4
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.0	4.5	.4	*	.0	8.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.1	.0	.0	.0	.2
1-2	.1	.6	.2	.0	.0	.0	.9
3-4	.0	.1	.6	.0	.0	.0	.7
5-6	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.1	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.1	1.6	.3	.0	.0	3.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.2	1.0	*	.0	.0	.0	1.2
3-4	.0	.3	.7	.1	.0	.0	1.0
5-6	.0	.1	.5	.0	.0	.0	.6
7	.0	.0	*	.1	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.1	.0	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.1	.1
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.6	1.3	.3	.0	.1	3.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.3	.0	.0	.0	.0	.3	
1-2	.0	1.0	.2	.0	.0	.0	1.2	
3-4	.0	.1	.7	*	.0	.0	.9	
5-6	.0	.0	.7	.2	.0	.0	.9	
7	.0	.1	.3	.1	.0	.0	.5	
8-9	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.4	1.9	.6	.0	.0	4.1	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	4.2	.3	.0	.0	.0	8.9	
1-2	1.6	22.1	6.5	.0	.0	.0	30.3	
3-4	.2	10.0	16.6	1.1	.0	.0	27.9	
5-6	.0	2.6	13.9	1.6	.0	.0	18.1	
7	.0	.1	6.2	2.4	.1	.0	8.7	
8-9	.0	.1	1.6	1.7	.1	.0	3.6	
10-11	.0	.0	.4	1.0	.1	.0	1.4	
12	.0	.0	.1	.4	.0	.0	.4	
13-16	.0	.0	.0	.1	.1	.0	.2	
17-19	.0	.0	.0	.2	.1	.1	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.1	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.1	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	39.0	45.6	8.5	.5	.1	100.0	1659

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	5.5	8.0	6.5	3.7	1.2	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	545	4
6-7	.0	1.1	5.4	8.7	7.3	3.3	2.1	.6	1.3	.5	.2	*	.0	.0	.0	.0	.0	.0	.0	612	7
8-9	.0	.1	2.2	4.6	5.2	3.1	2.1	.9	.9	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	393	7
10-11	.0	.4	.9	1.4	2.0	1.5	.7	.7	.7	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	178	8
12-13	.0	.0	.7	.4	.6	.5	.6	.3	.3	.4	*	.0	.2	.0	.0	.0	.0	.0	.0	85	10
>13	.0	.0	.0	.5	.5	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
INDET	.6	.6	1.5	1.7	1.8	.8	.5	.1	.1	.2	.1	.1	.0	.1	.0	.0	.0	.0	.0	164	6
TOTAL																				2004	6
PCT	1.7	7.7	18.7	23.9	21.2	10.7	6.8	2.8	3.7	1.7	.6	.2	.3	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1932-1978
(OVER-ALL) 1882-1978

TABLE 20

AREA 0016 RAROTONGA ISLAND
20.1S 158.9W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.4	.0	2.5	.7	.5	.0	.0	.0	.0	.0	.4	11	.4
85/86	5.3	8.9	6.6	10.9	2.5	.0	.0	.0	.0	.0	.8	.9	84	3.0
83/84	21.6	26.2	24.5	21.8	9.5	2.9	1.1	.0	.5	.6	1.2	9.7	277	9.8
81/82	42.7	44.4	44.5	40.8	33.7	17.2	6.1	6.2	4.7	6.9	18.6	25.6	683	24.2
79/80	25.1	12.4	18.2	13.8	34.0	33.8	23.7	17.3	15.2	24.9	31.4	35.7	675	24.0
77/78	3.5	2.7	4.5	8.8	12.6	23.0	33.2	30.0	35.5	34.8	23.1	20.7	547	19.4
75/76	1.8	2.7	1.4	.8	4.6	16.7	18.3	22.6	28.4	15.0	14.0	4.8	305	10.8
73/74	.0	2.2	.0	.4	1.8	5.4	12.6	17.7	10.9	12.4	7.4	1.3	175	6.2
71/72	.0	.0	.0	.0	.4	.0	3.4	2.9	2.9	3.6	3.3	.9	41	1.5
69/70	.0	.0	.0	.0	.4	.5	1.6	2.5	1.4	2.1	.0	.0	20	.7
67/68	.0	.0	.0	.0	.0	.0	.0	.8	.5	.0	.0	.0	3	.1
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	227	225	220	238	285	204	262	243	211	233	242	227	2817	100.0
MEAN	81.3	81.4	81.6	81.8	80.1	78.4	76.7	76.3	76.6	77.1	78.2	79.6	79.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1010	1009	1010	1007	1010	1008	1011		1010	251
FEB	1009	1009	1010	1012	1010	1008	1010		1010	236
MAR	1012	1010	1012	1010	1013	1009	1012	1013	1012	235
APR	1012	1008	1012	1014	1013	1010	1013	1015	1012	231
MAY	1013	1013	1014	1016	1014	1013	1013	1018	1013	260
JUN	1015	1013	1015	1017	1015	1013	1015		1015	256
JUL	1014	1014	1015	1017	1015	1015	1015	1014	1015	271
AUG	1015	1014	1016	1014	1016	1017	1016		1016	269
SEP	1015	1014	1015	1021	1016	1014	1015	1015	1015	237
OCT	1014	1013	1014	1022	1015	1014	1015		1014	254
NOV	1011	1011	1012	1015	1012	1013	1012		1012	253
DEC	1011	1008	1011		1010	1009	1011		1011	253
ANN	1013	1011	1013	1015	1013	1012	1013	1015	1013	3026
OBS	561	152	674	24	632	274	701	8		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1002	1004	1008	1010	1012	1015	1018	1019
FEB	996	1000	1003	1008	1010	1012	1015	1016	1017
MAR	1000	1000	1006	1010	1012	1013	1016	1018	1019
APR	997	1001	1007	1011	1012	1014	1016	1017	1021
MAY	1003	1006	1008	1012	1014	1015	1017	1018	1020
JUN	1004	1005	1011	1013	1015	1016	1019	1020	1021
JUL	1003	1004	1010	1012	1015	1017	1019	1021	1023
AUG	1006	1008	1011	1014	1016	1017	1020	1023	1024
SEP	1009	1010	1011	1014	1016	1017	1020	1021	1023
OCT	1005	1007	1009	1013	1015	1016	1019	1020	1022
NOV	998	1002	1006	1010	1012	1014	1017	1018	1019
DEC	998	1000	1004	1009	1011	1013	1015	1017	1018

USCOMM-NOAA-ASHEVILLE, N.C.-7/79/150

Volume	Area	Name	Approximate Central Location	
1	1	Nauru Is. and Ocean Is.	0.5°S	168.0°E
	2	Gilbert Islands	0.0°	174.5°E
	3	Canton Is. and Phoenix Is.	3.0°S	171.5°W
	4	Christmas Is. and Jarvis Is.	0.5°N	158.5°W
	5	Solomon Islands NE	7.5°S	159.5°E
	6	Solomon Islands SW	8.5°S	158.5°E
	7	Funafuti Atoll	9.0°S	179.0°E
	8	Marquesas Islands	9.0°S	139.0°W
2	9	Isle Wallis	13.0°S	176.0°W
	10	Samoa Islands	14.0°S	171.0°W
	11	New Caledonia	20.4°S	166.1°E
	12	New Hebrides Islands	17.3°S	168.2°E
	13	Fiji Islands	17.6°S	179.1°E
	14	Tonga Islands	19.8°S	174.6°W
	15	Niue Island	19.0°S	170.0°W
	16	Rarotonga Is. (Lower Cook Islands)	20.2°S	158.7°W
3	17	Tahiti Is. and Moorea Is.	17.0°S	151.0°W
	18	Tuamotu Archipelago	16.5°S	143.5°W
	19	Pitcairn Island	25.0°S	130.0°W
	20	Easter Islands	27.5°S	109.5°W
	21	Isla San Ambrosio and Isla San Felix	26.0°S	80.0°W
	22	Islas Juan Fernandez	33.5°S	79.0°W
	23	Norfolk Island	29.0°S	168.0°E
	24	Chatham Island	44.0°S	176.5°W
4	25	Auckland West	36.8°S	173.5°E
	26	Auckland East	36.6°S	176.0°E
	27	Cook Strait NW	40.0°S	174.0°E
	28	Cook Strait	41.5°S	174.5°E
	29	Hawke Bay	40.3°S	177.5°E
	30	South Island NW	43.4°S	168.2°E
	31	Foveaux Strait	46.9°S	168.6°E
	32	Christchurch	44.0°S	172.8°E